

SPECIAL REPORT: HOW TO BRAND YOURSELF AS A PHOTOGRAPHER

SHUTTERBUG

TOOLS, TECHNIQUES & CREATIVITY

August 2015

TOP PRODUCTS OF THE YEAR!

THE 40 BEST CAMERAS, LENSES, LIGHTING, SOFTWARE & PHOTO ACCESSORIES OF 2015



WE TEST

- » PENTAX K-S2
- » PANASONIC LUMIX DMC-G7
- » OUR FAVORITE IMAGING DRONES

PLUS

VINCENT LAFORET'S HEART-STOPPING NIGHT FLIGHTS PRODUCE SPECTACULAR AERIAL IMAGES

© Jorge Nunez

TEN THE OUTCAST NETWORK

1980 *Our story begins...*

The Paul C. Buff Research Lab

After many years spent in California where he'd earned an enviable reputation for his work in the recording industry, **Paul Conrad Buff** sold his studio to partner Frank Zappa and headed to Nashville, Tennessee. With his developing interest in photography and lighting, Paul was shocked at how bulky, inefficient, and grossly expensive studio lighting was at the time. Knowing the industry needed something better, Paul started an in-home research lab, beginning work on a "monolight" - a self-contained flash unit with power and versatility that could be made in America and priced affordably.



Paul's "Golden Rule" philosophy of customer service begins...



1981

The White Lightning 130

Paul unveiled his first "monolight" for \$139. With cult-style marketing, Paul answered all initial phone calls himself and began what would become a lifelong reputation for outstanding service.

1984

The 5K/10K Series

the beloved "coffee cans"



Want to buy a studio flash in the U.S. in 1980? You'll need \$1500+ ...and good luck if you need repairs.



2007

The ZEUS and Vagabond II

PCB broke new ground with the release of a powerful pack-and-head system and an upgraded Vagabond in the same year.

2006

The AllenBees Ringflash

Once a more specialized (and very expensive) type of flash, the ABR800 turned the ring flash into an overnight studio favorite.



Another case of copycatting is about to begin: Paul's PLM design is copied (poorly) by several huge manufacturers using lower quality materials and some using stolen molds. One didn't realize that BUFF was still stamped into the center pole mold. *Oops.*



2008 - 2009

The PLM System

Paul introduces a revolutionary new accessory - the carefully-crafted, Parabolic Light Modifier (PLM) System. With assorted sizes, fabrics, and covers - the PLM becomes a favorite replacement for traditional umbrellas and softboxes.

The CyberSync System

A giant step is taken in the world of remotes as well with the wireless 2.4 GHz CyberSync radio remote control system



2010

The EINSTEIN

Time for something brilliant! This powerful, all-digital, IGBT-controlled flash shocked the industry with its lightning fast flash duration and consistent color temperature.



PAUL C.
BUFF

paulcbuff.com
1-800-443-5542

SALES TRIPLE -

White Lightning tops the industry with a 25% market share

1986

The Ultra Series

the next generation "super light" is released - quickly becoming the favorite flash in studios across America



1997

The ZAP 1000



Competitors begin creating copycat designs and aggressive marketing campaigns targeting White Lightning

1998

The UltraZAP and X-Series Flash Units

Paul C. Buff, Inc. gets "brighter, lighter, quicker, tougher, sleeker, and cheaper"

In 1999, Paul marries Debbie - who will soon start drawing little pictures of bees with alien eyes...

2003

The Vagabond

the first portable true sine wave battery power source for flashes



1992

Compuscene

the first single computer controllable wired remote

Suddenly other products in the photo world start showing up in colors too...

2000

The RadioRemote One

a 900 MHz wireless remote control system for controlling up to 256 lights!



Buff's percentage of the U.S. studio flash market rockets to an estimated 60%

2011

PLMv.2

The highly evolved PLMv.2 offers extreme efficiency, smooth coverage, and even illumination. Sorry, copycats.

The Vagabond Mini

Incredible power in such a tiny, lightweight package



Two years after the Vagabond Mini arrives, along comes the Photogenic Ion. Gee, that looks FAMILIAR.

Hmm. Did Profoto suddenly come out with an IGBT-controlled flash after the Einstein?

In the Lighting Industry,
ORIGINALITY & INNOVATION
have always come from
the **same place.**
See it in our past -
be part of it in the future. **The BUFF Goes ON ---->**

2014

The Omni Reflector

With the Omni, PCB introduced a multi-purpose modifier for all shooting styles - with ultra-even, wide coverage and max output.

The VLX Extreme

The 4th-generation VLX is our most powerful portable power source yet, utilizing the safest, most robust, and longest lasting batteries available.



See the **PACKAGES** now online with our newest products!

Honoring our founder, our mentor, and our friend - Paul blazed the trail and we keep marching ahead.

Exceptional Images

Deserve an Exceptional Presentation



Images by: Alexis Cuatrecasas, Max Seigal, Stephen W. Oachs, Jessica Quintal, Nicole Sepulveda, Annie K Rowland, Scott Robert Lim, Neil Simmons

Display Your Images in Their Element

Choose our Wood Prints to lend a warm, natural feel to your images, or MetalPrints infused on aluminum for a vibrant, luminescent, modern look. Both options provide exceptional durability and image stability, for a gallery-worthy display that will last a lifetime. Available in a wide range of sizes, perfect for anything from small displays to large installations.



Learn more at bayphoto.com/pro-products

25%
OFF
Your First Order!

*Get 25% off your first order with Bay Photo Lab! For instructions on how to redeem this special offer, fill out the New Customer Account Request form at bayphoto.com.



Stunning Prints

on Natural Wood or High Definition

Quality. Service. Innovation.
We're here for you!

bayphoto
bayphoto.com

SALE

1
minute
in Portrait
Pro

EXTRA 10% OFF
CODE TF1179

Shutterbug readers get
an **EXTRA 10% DISCOUNT**
OFF any SALE or LIST PRICE -
use the code
at www.PortraitPro.com.

THE FASTEST, EASIEST RETOUCHING SOFTWARE

PortraitPro 12 contains unique face relighting technology for fast and natural-looking photo touch-up. An interactive preview of results and customizable presets and sliders give you full creative control. Create a flawless look or a more subtle finish in seconds.



DOWNLOAD YOUR **FREE TRIAL** NOW FROM WWW.PORTRAITPRO.COM!

SALE



**1
minute
in Portrait
Pro**



THE FASTEST, EASIEST RETOUCHING SOFTWARE

Too much airbrushing can lead to unnatural, plastic-looking skin. PortraitPro 12 lets photographers get around this problem by adjusting the light on the face to get more natural and flattering results. Now you can always show your subjects in their best light.



Money-back
guarantee if
you are not
satisfied.

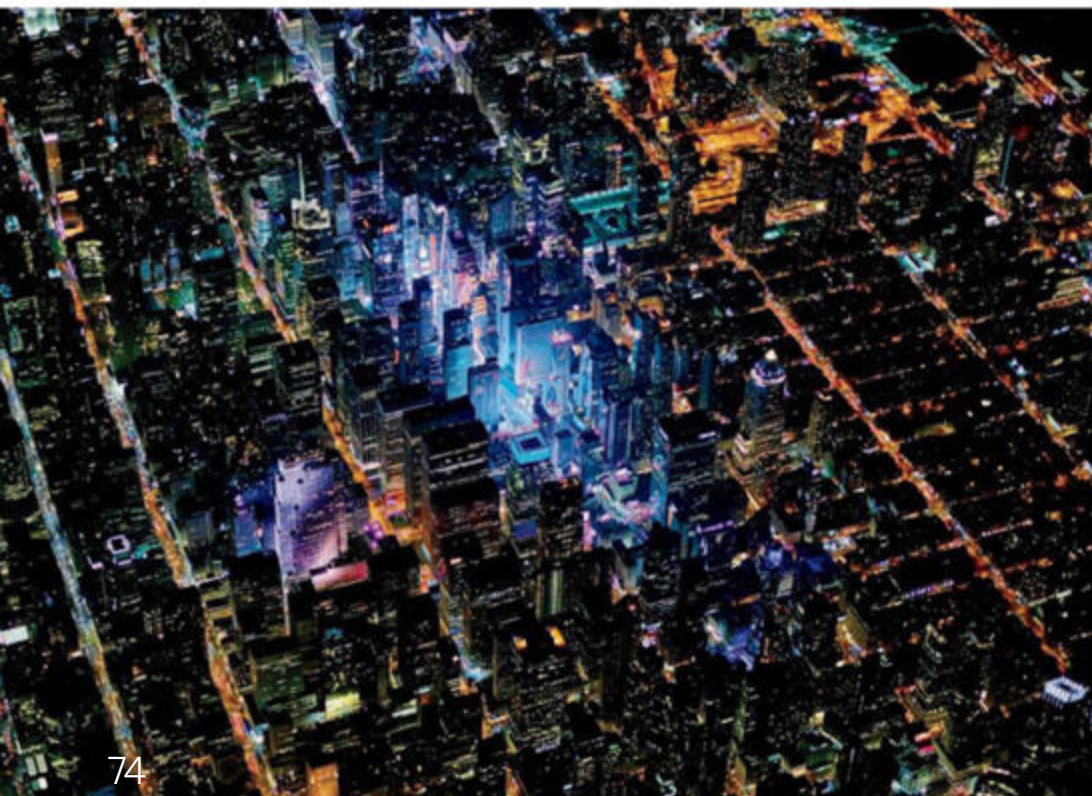
EXTRA 10% OFF
CODE TF1179

Shutterbug readers get
an **EXTRA 10% DISCOUNT**
OFF any SALE or LIST PRICE -
use the code **TF1179**
at www.PortraitPro.com.

DOWNLOAD YOUR **FREE TRIAL** NOW FROM WWW.PORTRAITPRO.COM!



14



74

SHUTTERBUG (ISSN0895-321X) is published monthly by TEN: The Enthusiast Network, LLC, 261 Madison Ave., 6th Floor, New York, NY 10016. Periodicals postage paid at New York, NY and additional mailing offices. POSTMASTER: Send all UAA to CFS. (See DMM 707.4.12.5); NON-POSTAL AND MILITARY FACILITIES: send address corrections to SHUTTERBUG, PO Box 420235, Palm Coast, Florida 32142-0235. Printed in the U.S.A.

Copyright © 2015 by TEN: The Enthusiast Network Magazines, LLC. All rights reserved. No portion of this magazine may be reprinted without written permission from **SHUTTERBUG**. For information on display rates or media kits, please write: **SHUTTERBUG**, P.O. Box 7, Titusville, FL 32781, (321) 269-3212. Subscriptions: US—One Year (12 issues) \$22.95, Canadian \$34.95, Foreign \$46.95 (including surface mail postage). Payment in advance, U.S. funds only. Single Copies \$4.99 (US), \$5.99 (Canada), (800) 829-3340.

BACK ISSUES: To order back issues, visit <https://www.circsource.com/store/storeBackIssues.html>.

CREATIVITY

- 14 HIPA WORLDWIDE PHOTO AWARD WINNERS**
Exhibits, Workshops, and Grand Award Ceremony Mark 4th Annual HIPA Event
by George Schaub

TOOLS

- 26 ASK A PRO**
Scott Kelby Answers Your Photography Questions
by Scott Kelby

- 32 THE GOODS**
This Month's Picks for Our Favorite New Premium Photo Gear
by The Editors



- 36 GEARED UP**
Our Favorite Mini Copters, UAVs, and Drones for Aerial Photography
by Joe Farace

- 54 TOP PRODUCTS OF THE YEAR**
40 Imaging Products Picked by TIPA as Best Photography Gear of 2015
by George Schaub

CAMERA REVIEWS

- 28 PENTAX K-S2**
Lab Test Results & Comments: Still & Video
Edited by George Schaub

- 46 PANASONIC LUMIX DMC-G7**
We Take Panasonic's Speedy, 4K-Shooting, Mirrorless Camera for a Spin at the Indy 500
by Dan Havlik

TECHNIQUES

- 74 PRO'S CHOICE**
Photographer Vincent Laforet's Heart-Stopping Night Flights Produce Spectacular Aerial Images
by Jack Neubart

- 78 BUSINESS TRENDS**
How to Brand Yourself as a Photographer
by Maria Piscopo

PHOTO © 2015 SUE BRYCE.

"Alien Skin's Exposure is the editing software I always dreamed of." — Sue Bryce



Exposure 7 gives your photos organic and emotional looks inspired by the history of analog photography.

Use subtle touches of modern film, or go with the dramatic styling of photography from a century past. Explore Exposure's beautiful color toning and unmatched black and white conversion. Our hundreds of presets give you plenty of inspiring starting points. From there, you can customize to your heart's content. With Exposure 7, your photo will look hand-crafted, not computer generated.

Visit alienskin.com to try Exposure for free.

© 2015 Alien Skin Software, LLC. All rights reserved. Exposure and Alien Skin Software are registered trademarks of Alien Skin Software, LLC.





16



24

DEPARTMENTS

- 12 EDITOR'S NOTES
- 16 PICTURE THIS!
- 24 TALKING PICTURES
- 95 FINAL SHOT

READER SERVICES

- 94 ADVERTISER'S INDEX
- 92 ETC...SHOPPERS,
PHOTO LABS,
SERVICE/REPAIR,
& EVENTS
- 72 PRODUCT PORTFOLIO

ON THE COVER

Our studio photographer Jorge Nunez shot this snazzy image of the Nikon D810 as part of our Top Products of the Year coverage. The 36.3-megapixel, full-frame D810 was selected as Pro DSLR of the year by the Technical Image Press Association (TIPA)—of which *Shutterbug* is a member—in the annual vote. TIPA is comprised of editors and representatives from the world's leading photo and imaging magazines from 15 countries on five continents. Forty products made the cut as the best photo gear of 2015. Read more beginning on page 54.



Photos © (top) Dan Hawlik; (bottom) Dr. Alan Sloyer



OLYMPUS

Myth:
Professionals don't use
mirrorless cameras.

Image shot with the Olympus OM-D E-M1
with the M.Zuiko 75mm f2.0 lens
by Olympus Trailblazer, Tracie Maglosky



OM-D
E-M1

**Fact: You can run your entire business
with the OM-D E-M1 system and lenses.**

With a 16MP image sensor, the world's most powerful 5-Axis Image Stabilization system and a huge array of lenses for blazing-fast Auto Focus speeds, the portable E-M1 is the only camera system your business needs. It can do it all—at a fraction of the weight of a DSLR. Get all the details at getolympus.com/myths.

GET POWER. GET PORTABLE. GET OLYMPUS.



ZUIKO
LENS SYSTEMS



EDITOR'S NOTES

GEAR OF THE YEAR

IS IT TOO EARLY to do some holiday shopping? Maybe, maybe not. At least you'll have a list of the Top Products of the Year, which we compiled in this issue with the help of the Technical Image Press Association (TIPA). TIPA is comprised of editors and representatives from the world's leading photo and imaging magazines from 15 countries on five continents and yep, *Shutterbug* is one of those publications. (Not to brag, but we're also the sole U.S. member of this prestigious association.) Our Editor-at-Large George Schaub represented *Shutterbug* at the TIPA General Assembly meeting in Dubai, United Arab Emirates, earlier this year, voting on 40 product categories. There are some great choices, including our fetching cover model, the Nikon D810, which was named the Professional DSLR of the Year. TIPA Awards coverage begins on page 54.

Speaking of photo products, this issue is chock full of them. Call it a cornucopia of imaging gear, designed to inspire you to go out and take great pictures. We have a lab review of the Pentax K-S2 on page 28, and my field test of the Panasonic Lumix DMC-G7 on page 46. As you'll see, I was lucky enough to get to take the camera for a spin at the Indy 500 and had a blast doing it. (Though my eardrums may still be recovering.)

On page 36, Joe Farace picks his favorite imaging drones in *Geared Up* and then on page 74, aerial photographer Vincent Laforet talks about how he loves shooting at night from a full-size helicopter at altitudes of up to 12,000 feet. Call him crazy, if you will, but he's captured some amazing, artistic shots that would be impossible with a drone.

We've also launched a brand-new column in this issue that has a gear-bent. Many long-time *Shutterbug* readers are still bemoaning the retirement of our *Digital Help* columnist David B. Brooks at the end of last year. While he's certainly not replacing David, we'd like to welcome Scott Kelby to *Shutterbug* with his similarly focused new Q&A column titled *Ask a Pro* on page 26. Scott's a photographer, writer, and educator who's well known in the photo industry and we're proud to have him on board. If you've got a photography-related question, e-mail it to editorial@shutterbug.com and you could see it answered in an upcoming issue.

And finally, another word about the recent redesign of the magazine. In short, we goofed up. Many of you have written in to complain about the font size in the captions, saying it had become too small to read without squinting. Though it looked fine when we reviewed layouts of the June issue on the computer, in printed form we too struggled to read the captions. While it was too late to make the change for the July edition, we've bumped up the font size starting with this issue. We hope you notice a significant difference. Happy reading! ■

Dan Hawlik

SHUTTERBUG

P.O. BOX 7, TITUSVILLE, FL 32781

EDITORIAL

GENERAL MANAGER RON LEACH
EDITOR-IN-CHIEF DAN HAWLIK
GROUP MANAGING EDITOR COURTNEY MCKINNON
MANAGING EDITOR ANDREA K. TURNEY
EDITOR-AT-LARGE GEORGE SCHAUB
ART DIRECTORS ALINA AVANESYAN, BERNICE GUEVARRA
LISTINGS EDITOR CYNTHIA BOYLAN
ADMINISTRATIVE ASSISTANT/CUSTOMER SERVICE SHERRY SWIM
sswim@enthusiastnetwork.com • (321) 225-3137

CONTRIBUTORS

STEVE BEDELL, JOE FARACE, BLAINE HARRINGTON, JAY MCCABE,
HOWARD MILLARD, JOSH MILLER, JACK NEUBART, MARIA PISCOPO,
LORIN ROBINSON, JASON SCHNEIDER, JON SIENKIEWICZ, BARRY
TANENBAUM, STAN TRZONIEC, JOHN WADE

SUBSCRIPTIONS • (800) 829-3340, (386) 447-6318
shutterbug@emailcustomerservice.com

SHUTTERBUG, PO BOX 420235, PALM COAST, FL 32142-0235
PLEASE INCLUDE NAME, ADDRESS, AND PHONE NUMBER ON INQUIRY.

ADVERTISING

ACCOUNT EXECUTIVES

GENNY BRESLIN (321) 225-3127

GBreslin@enthusiastnetwork.com

JOANNE GEORGE (321) 225-3130

JGeorge@enthusiastnetwork.com

ADVERTISING ASSISTANT

ROBIN BEECHERL (321) 225-3144

RBeecherl@enthusiastnetwork.com

FAX (321) 225-3146 • sales@shutterbug.com

MANUFACTURING & PRODUCTION OPERATIONS

VP, MANUFACTURING & AD OPERATIONS GREG PARNELL
SENIOR DIRECTOR, AD OPERATIONS PAULINE ATWOOD
ARCHIVIST THOMAS VOEHRINGER

ENTERTAINMENT GROUP

MANAGEMENT

PRODUCTION DIRECTOR KASEY KELLEY

EDITORIAL DIRECTOR, DIGITAL CHRIS MAURO

FINANCE DIRECTOR ADAM MINER

DIGITAL GROUP

DIGITAL DIRECTOR, ENGINEERING JEFF KIMMEL

SENIOR PRODUCT MANAGER RISHI KUMAR

SENIOR PRODUCT MANAGER MARC BARTELL

CREATIVE DIRECTOR PETER TRACY

TEN: THE ENTHUSIAST NETWORK, LLC

CHAIRMAN PETER ENGLEHART

CHIEF EXECUTIVE OFFICER SCOTT P. DICKEY

EVP, CHIEF FINANCIAL OFFICER BILL SUTMAN

PRESIDENT, AUTOMOTIVE SCOTT BAILEY

EVP, CHIEF CREATIVE OFFICER ALAN ALPANI

EVP, SPORTS & ENTERTAINMENT NORB GARRETT

EVP, CHIEF CONTENT OFFICER ANGUS MACKENZIE

EVP, OPERATIONS KEVIN MULLAN

SVP, ENTERPRISES TYLER SCHULZE

EVP, SALES & MARKETING ERIC SCHWAB

SVP, DIGITAL OPERATIONS DAN BEDNAR

SVP, SALES OPERATIONS MATT BOICE

SVP, FINANCIAL PLANNING MIKE CUMMINGS

SVP, AUTOMOTIVE DIGITAL GEOFF DEFRAANCE

VP, EDITORIAL OPERATIONS AMY DIAMOND

EVP, AFTERMARKET AUTOMOTIVE DOUG EVANS

SVP, CONTENT STRATEGY, AUTOMOTIVE DAVID FREIBURGER

SVP, DIGITAL, SPORTS & ENTERTAINMENT GREG MORROW

VP, DIGITAL MONETIZATION ELISABETH MURRAY

SVP, MARKETING RYAN PAYNE

EVP, MIND OVER EYE BILL WADSWORTH

CONSUMER MARKETING, ENTHUSIAST MEDIA

SUBSCRIPTION COMPANY, INC.

SVP, CIRCULATION TOM SLATER

VP, RETENTION & OPERATIONS FULFILLMENT DONALD T. ROBINSON III

Occasionally, our subscriber list is made available to reputable firms offering goods and services that we believe would be of interest to our readers. If you prefer to be excluded, please send your current address label and note requesting to be excluded from these promotions to: TEN: The Enthusiast Network, LLC, 831 S. Douglas St., El Segundo, CA 90245, Attn.: Privacy Coordinator.

Any submissions or contributions from readers shall be subject to and governed by TEN: The Enthusiast Network's User Content Submission Terms and Conditions, which are posted at <http://www.enthusiastnetwork.com/submissions>.

Reprints: Contact Wright's Media at 877-652-5295 (281-419-5725 outside the U.S. and Canada) to purchase quality custom reprints or e-prints of articles appearing in this publication.

Copyright © 2015 by TEN: The Enthusiast Network Magazines, LLC. All rights reserved. Printed in the USA.

Canada Post: Return undeliverable Canadian addresses to IMEX Global Solutions, P.O. Box 25542, London, ON N6C 6B2.

CONNECT WITH SHUTTERBUG

editorial@shutterbug.com

F: shutterbugmag T: shutterbugmag I: shutterbugpix





AKURAT Lighting

Compact, high CRI, power saving on camera lights, over 1000 lumens of high quality, wide beam of light. Fully dimmable and adjustable from tungsten to daylight, perfectly matching color in any condition. Powered from any sources between 6-20V.



PMG-DUO Video Slider

Lengths Available:
24, 32, 36, and 48 inches

The only slider with curved and straight tracks in one solid body. Extra sturdy construction using lightest and strongest of metals. Use it with included tabletop legs, mount to a tripod, switch from straight to curved track in an instant. Motor control allows for even smoother shots and incredible timelapses.



BOOMERANG Flash Bracket

The last flash bracket you will ever need. Solid engineering makes it a fluid extension of the camera, while remaining lightweight. Quickly flipping the flash from vertical to horizontal position alleviating subject shadows.



GUILLotine Flash Bracket

The Guillotine is designed to give you both maximum flexibility and ease of use. It not only brings the flash over from Landscape to Portrait position, but also allows the flash to rotate 90 degrees around the Flash shoe.



KATANA Gimbal Head

The "King" of Gimbal Heads. Designed to disrupt commonalities found among ordinary gimbals. Over engineered by design, specifically for demanding photographers. Your ultimate support for your long lens is available now.



TOMAHAWK Gimbal Head

The "Prince" of Gimbal Heads, or an assistant. This little gem is designed for those that need to travel light, yet still bring their tripod, or monopod along, needing solid long lens support. Provides effortless lens balance when attached to tripod head or used as monopod head



PMG Ball Head

This is not your average ball head. Designed to impress and perform even with the heaviest cameras and lenses. Quickly and easily change camera position with oversized tension knob.



L-Brackets

L-Brackets are essential if you will need to change the orientation of your photographs from landscape to portrait in a hurry without recomposition. Universal and Custom L-Brackets available. Arca-Type Compatible



Camera Plates / Clamps

Arca-Type compatible plates are custom designed to match the specifications of the camera body shape therefore providing a slim unobtrusive design with anti-rotation. Arca-Type compatible quick release clamps are designed to fit any standard Arca-Type Plates, and L-Brackets.



GRIP & SHOOT Bluetooth for iPhone / Android

The GRIP&SHOOT™ lets you take pictures and video wirelessly. When attached to your phone via Jawz universal holder or Shooter Case it also reduces shaky video and blurry pictures.



Ball Heads



Clamps



Gimbal Heads



Custom L-Bracket Plates



Arca-Type Plates



Video Sliders/Rigs



Flash Brackets



© Anurag Kumar

GRAND PRIZE, LIFE IN COLOR: Freelance photographer Anurag Kumar from India made this image at Holi, the festival of colors, in his home country. He intends to use the \$120,000 Grand Prize Award to "get some equipment and lenses" and further pursue his photographic work.

HIPA WORLDWIDE PHOTO AWARD WINNERS

EXHIBITS, WORKSHOPS, AND GRAND AWARD CEREMONY MARK 4TH ANNUAL HIPA EVENT

By George Schaub

THE FASCINATING AND DYNAMIC CITY OF DUBAI, United Arab Emirates, played host to the 4th Annual HIPA Awards event earlier this year. Photographers from around the world took part in the HIPA Awards competition—dubbed "Life in Color"—and were honored with both gracious hospitality and generous prize awards. There were also two special awards: a Photography Appreciation Award, presented to Sebastião Salgado, and a Photographic-Research/Report Award, presented to Scott Kelby.

This truly worldwide competition received over 60,000 entries from almost 31,000 participants from 166 countries, representing every continent, so all due respect to the panel of judges. The aim of the HIPA Awards, according to the

organizers, is to encourage photographers of all nationalities to pursue their passion for the art and craft of photography and, along the way, further establish Dubai as an international photo hub.

The event began with an impressive outdoor awards ceremony, with images of finalists projected on a huge screen. All in all a very professional and exciting venue and show. According to the winners, who knew they were in consideration for a range of awards, no one knew who the top prizes would go to, which added to the drama of the event.

The following evening saw a lecture by the photographer Reza (whose full name is Reza Deghati), a Fellow of the National Geographic Society, whose compassionate and activist photography and call for

universal understanding came through in his impassioned images and talk. (See www.rezaphoto.org for more information.)

The next day HIPA organized one-on-ones for the international press with the winners, some of whose images you see here. The event then continued through the week with talks, seminars, and various workshops, making for an engaging and immersive photographic experience for all.

HIPA FIFTH SEASON PHOTO COMPETITION: "HAPPINESS"

During the event HIPA organizers announced the categories for the 2015-2016 Hamdan Bin Mohammed Bin Rashid Al Maktoum International Photography Award. The competition is open to all photographers. There are four category



FACES: BLACK AND WHITE, 3RD PLACE: Chi Hung Cheung from Hong Kong made this photo during the Chinese New Year in Huangnan, China. This was his second year of entering the competition and said that he'd been "encouraged to do so by his photographer friends."



GENERAL, 5TH PLACE: Jaime Singlador is a civil engineer and avid photo hobbyist from the Philippines. He made this photo of children enjoying an afternoon dip at a kawa hot bath sprinkled with leaves in the Western Visayas region of his country.



LIFE IN COLOR, 3RD PLACE: Photo teacher Zeki Yavuzak from Turkey made this image in the town of Aydin, where he found people at work string-drying vegetables to prepare for the coming winter months.

groups: Happiness (the main theme); Wildlife; Fathers and Sons; and a General category. The Grand Prize is \$120,000. There will be 1st through 5th Place prizes for each category, with the "Happiness" category ranging from \$25,000 to \$10,000 and the other category prizes ranging from \$15,000 to \$6,000. Submissions are now open, with the final date for submissions being December 31, 2015. For details and submission requirements, visit www.hipa.ae. ■



جائزة حمدان بن محمد بن راشد آل مكتوم الدولية للتصوير الضوئي
 HAMDAN BIN MOHAMMED BIN RASHID AL MAKTOUM INTERNATIONAL PHOTOGRAPHY AWARD



GORGEIOUS LANDSCAPES

THIS ASSIGNMENT WAS SIMPLE but it was also highly competitive. Yes, we received many lovely landscape photos in our Picture This! gallery on Shutterbug.com, but we were looking for something extra special. And we got it, with these 10 images from readers offering incredible and unique vistas.

> **KONA COAST SUNSET**
Yvonne Baur captured this transcendent image of Hawaii using a Nikon D610 and a Nikkor 24-70mm lens with a Cokin 0.9 Grad ND filter at 32mm, f/8, ISO 125, 1.3 seconds. "This is one of my favorite spots along the Kona Coast, Hawaii," she says. "The spot primarily works during high surf or high tide. Sometimes big rogue waves crashed on shore right in front of me and I had to grab my camera gear and run. But that was all part of the fun and I finally ended up with this shot."



▲ **ABOVE BIG SUR**
"I'd gone to Big Sur to watch the gray whale migration from the cliffs but it was too foggy to even see the water, so I decided to hike up the Baronda Trail to try to get above the fog. This view was the reward," Douglas Croft says about this beautiful shot. "The hillsides were carpeted with lupine and the skies were sparkling blue."

© Yvonne Baur



TRANSLUM[®]

A STUDIO ESSENTIAL FOR CREATIVE & UNIQUE PHOTOGRAPHY

Translum is a versatile and unique, semi-translucent plastic material designed for transforming light and creating stunning visual effects in the studio.



BACKGROUND

Translum is smooth and texture-free, making it perfect for backgrounds. Try backlighting for an easy high key set up.



TABLETOP

Use Translum as a background for product, and tabletop photography. Cut Translum to any size to fit your application.



DIFFUSE

Diffuse studio or natural lighting with Translum to achieve soft, delicate light. Suspend near windows to easily diffuse natural light.



SILHOUETTES

Get creative! Translum allows you to transform light and shadow like a pro. Cut and trim Translum to make your own cookaloris!

Translum Size	F-Stop / Light Loss	Item
54" x 18' roll	2	55418
60" x 18' roll	1.5	36018
60" x 18' roll	3/4	46018
12" x 12" sheet	Variety (2 of each above)	TL1212-PK

For more information on Translum & its multiple uses visit

SavageUniversal.com



Photo courtesy of Lopshire Photography



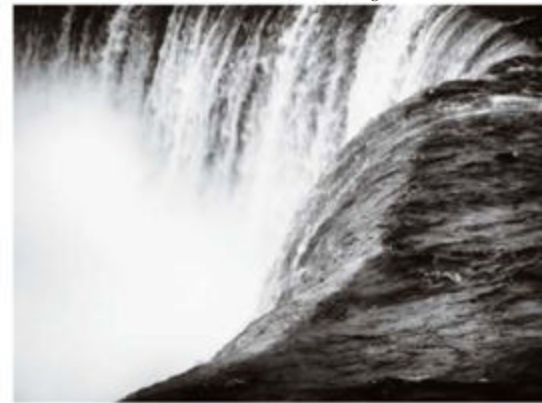
© Alan Bogart

FALL COLORS AND CLEARING STORM, KEBLER PASS, COLORADO

Alan Bogart shot this striking image in the fall of 2014 with a Nikon D800E and a Nikkor 80-200mm f/2.8 lens at 200mm, f/14, 1/250 second, ISO 200. It was processed in Photoshop CS5 and Nik Color Efex Pro 4.



© Constance Reid



© Doug Friesen

FLOW

Doug Friesen's crisp, black-and-white shot of Niagara Falls may not be a traditional "landscape" photo but it sure is splendid. "Niagara Falls has always been a destination that I wanted to spend time at," Friesen says about the image. "Traveling western provinces for most of my growing up years, I thought it was time to head east. This brought me to behold the power of the falls. The setup was simple. I handheld the camera high, pointing downwards into the falls for this perspective. Lightroom 6 and Photoshop CS6 were used to process the image and convert to black and white." He captured the photo with an Olympus E-M1 and a 12-40mm lens at 40mm (80mm equivalent). White balance was auto, aperture was f/5.5, shutter speed was 1/2000 second, and ISO was 200.



© Neil Williams

STORM LANDING

"I made this image at Longboat Key, Florida, during the summer," Neil Williams writes. "I was traveling for work and stayed at a hotel there. Looking down at the beach behind the hotel from my balcony I noticed the signs of an approaching storm. I grabbed my gear and ran down to the beach. I don't think I had ever experienced such a graphic approaching storm up close like this. It was quite amazing to see." Williams shot it with a Nikon D600 on a tripod at f/16, 1.3 seconds, ISO 100. He used Nik Silver Efex Pro 2 for the black-and-white conversion and Adobe Lightroom for further processing.

SUNSET AT MORRO ROCK

"The light was changing quickly as we were leaving the restaurant. I reached in my bag for the only camera I had with me," Constance Reid explains on how she captured this stunningly colorful image. The camera she grabbed was the Pentax WG-3 and this photo was shot at ISO 125, 1/320 second at f/3.5.



Experience your photos in gallery quality.

We'll deliver your masterpiece in a made-to-measure frame.
Ready for your own art show.

WhiteWall.com



**YOUR PHOTO IN A
HANDCRAFTED FRAME**

starting at just

\$39.90

Save \$10

Coupon code: **WW15SHB07**

Minimum order value: \$70
valid until 10/4/2015*

© Sherry Christensen



THE ROAD LESS TRAVELED

"The Aurora Borealis or Northern Lights dance across the Canadian prairie on a cold February evening," Sherry Christensen says. "They were so bright and lively that you could even hear them!"



FOGGY MORNING

"Lone oak tree on a foggy morning in South Carolina," David Kennedy says of this evocative scene.



GOLDEN GATE BRIDGE ENGULFED BY EARLY MORNING FOG

"An early morning hike up Slacker Ridge in the Marin Headlands pays off as a thick patch of fog engulfs the iconic Golden Gate Bridge," Richard Lonardo writes about this classic shot.

© Richard Lonardo

© Peter Sanne



CANOLA FIELD

"This year I had the chance to take photos of the canola fields here around my hometown," Peter Sanne says about this bright, pretty image.

HOW TO SUBMIT ONLINE

1. Go to www.shutterbug.com and register. Scroll down the page and on the right side you will see a box for entering your username and your password. If you already have registered and/or submitted images for the Galleries you can skip this step. Respond to the activation e-mail. Registration is free. You will use your username and password whenever you visit or, with some systems, it will automatically load for you when you visit www.shutterbug.com.
2. Check the assignment and closing dates in the magazine. When the magazine is printed we will create an appropriate gallery for your images. The limit is two images per assignment.
3. Select and prepare your images. We only accept files at a maximum 2MB size, JPEG format. Save the JPEG at a quality level of 10 or higher. Note that file size in your image folder directory will determine upload size, not the "opened" file size, as JPEG compresses at 1:4 at higher quality ratings. If your images do not load it probably means you have exceeded the file size or have not used JPEG format.
4. Click on the Galleries tab on the homepage. In the Category section use the drop-down menu to select the Picture This! assignment. Note that images are simultaneously loaded into the assignment category as well as your own personal gallery. When the Picture This! assignment deadline date has lapsed the assignment gallery will be removed, but your image will still reside in your own gallery.
5. In the Description box add title, camera, lens, exposure information, and your full name. Also add any other comments or anecdotes you think relevant. We reserve the right to edit comments as needed.
6. Click the Save button at the bottom of the page to upload the image.
7. You retain copyright on the image.
8. We will choose the images after close of the due date.
9. Please feel free to comment on images submitted by other readers.

PLEASE NOTE: If the photograph includes a minor or a recognizable individual or group you are guaranteeing that you have a signed model release form, and especially a parental or guardian release form for minors. You should keep a copy of that release in your files. Scan that release and keep it handy. If an image is chosen for publication, failure to provide a form when requested will eliminate the image from consideration. You can find release forms at <http://asmp.org/tutorials/model-release-minor-child.html> and other resources on the Internet. By uploading images you attest that the model release form is valid, that any depiction of a person is with their consent, that you have a model release form available on request, and that all images you submit have been made by you.

DEADLINE FOR SUBMISSION: September 1, 2015. Images will appear in our December 2015 issue.

OUR NEXT TOPIC: Extreme Outdoor Photography

DEADLINE: October 1, 2015 **PUBLICATION DATE:** January 2016

PLEASE NOTE: By submitting you agree to give us the right to show the image(s) on the web and for publication. You give us publication rights in the magazine and on the website(s) of TEN: The Enthusiast Network, LLC.

WANT TO SEE IMAGES SELECTED FOR PAST PICTURE THIS! ASSIGNMENTS?

Go to www.shutterbug.com and click on Picture This! in the "More Articles..." box on the homepage.

Samy's Camera

TRADE-IN WE PAY TOP \$\$\$ FOR
OR TRADE UP! YOUR USED EQUIPMENT!

FOR A QUOTE CALL

GEORGE at our FAIRFAX LOCATION 323-938-2420 ext.1293

Rod at our BEATRICE LOCATION 800-321-4726.

EQUIPMENT FINANCING

SIMPLE! ONE PAGE EXPRESS APPLICATION.

FAST! APPROVAL WITHIN 24 - 72 HOURS.

FLEXIBLE PAY OPTIONS

www.socalleasing.com/samys-camera

PENTAX

645Z MEDIUM FORMAT SLR



- 51.4 MEGAPIXELS CMOS SENSOR
- CLASS LEADING SPEED & RESPONSE WITH 3FPS
- VERSATILE LIVE VIEW W/ TILTABLE LCD PANEL

PHASEONE

ALPA A SERIES



- 80 MEGAPIXELS MEDIUM FORMAT
- EDGE-TO-EDGE SHARPNESS
- 23MM, WIDE 35MM & 70MM LENSES AVAILABLE

■ **broncolor**



TRADE-IN &
SAVE UP TO
25%

Trade in your professional studio packs, battery power packs and lampheads and get trade-in credit up to 25% savings.

SEE STORE FOR DETAILS



B2 ON/OFF CAMERA FLASH KIT



- FAST, POWERFUL & EASY
- B2 250 AIR TTL, B2 HEAD LI-ION BATTERY, B2 CARRYING BAG & BATTERY CHARGER



FLEX™ 1-PANEL DAYLIGHT KIT

10 X 10" FLEX DAYLIGHT PANEL: 5,600K



- DIMMER, POWER SUPPLY
- DIMMER EXTENSION CABLE
- 140° BEAM ANGLE
- WEATHERPROOF

NEW ACCESSORIES

phototools

THE TOOLS YOU NEED FOR GREAT PHOTOGRAPHY



TRI SKATE MINI DOLLY
WITH SCALE MARKS



32" CAMERA SLIDER



ROLLING MINI DOLLY
STABILIZATION SYSTEM



TRAVEL READY CARBON
FIBER TRIPOD W/ BALL HEAD

SEVEN LOCATIONS & A MAIL ORDER TEAM TO SERVE YOU

LOS ANGELES (323) 938-2420 | CULVER CITY (310) 450-4551 | PASADENA (626) 796-3300

ORANGE COUNTY (714) 557-9400 | SANTA BARBARA (805) 963-7269 | PLAYA VISTA (310) 450-7062 | SAN FRANCISCO (415) 621-8400

WWW.SAMYS.COM | 1-800-321-4726

FOLLOW US



STREET PHOTOGRAPHY

For our next assignment we want you to take to the street and document scenes of life. Capturing powerful street photography images can be tougher than it seems though. First, you have to be bold enough to shoot candid images of people on the street, most times without their permission. Secondly, we'd like to see street photography images that capture an emotion or tell a story; not just random shots of people walking down the street. To paraphrase the great Henri Cartier-Bresson, you're looking for "the decisive moment." ■

THE CARABINIERI

I shot this image of three members of the Carabinieri, Italy's national military police, on a street near the popular Trevi Fountain in Rome, Italy. The Carabinieri walk around with so much attitude, there's no need to ask them to pose: they just always seem to be standing in dramatic positions. I captured this shot with a Pentax K-5 at f/7.1, 1/160 second, ISO 200. I processed it using the Bleach Bypass filter in Nik Color Efex Pro to increase the contrast and bring out detail.

© Dan Havlik



Lightning Bug™
www.mkcontrols.com

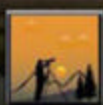
Simple to use! Just mount the Lightning Bug™ on your camera hot shoe, connect the interface cable, and the Lightning Bug™ does the rest!

Designed to capture images of lightning strikes and get the shot day or night. Rugged and water resistant by design, a must have for outdoor photographers.

Compatible with over 135 DSLRs. Unsurpassed 3 year warranty and LIFETIME replacement policy. See website for complete details.



Capture the power of nature.



MK CONTROLS

\$179⁰⁰

Includes Interface Cable

Get free U.S. shipping! Use discount code SB2014

Background Mike Leonard©



ASK
ABOUT
REBATES

"Pose it, light it, love it"

CLAY BLACKMORE

10 YEARS AGO CLAY BLACKMORE MADE THE **QUANTUM** LEAP AND NEVER LOOKED BACK



Clay Blackmore is a master of lighting and classic portraiture... and a big fan of Quantum portable lighting equipment. "I've been using Quantum lighting products for over ten years. Every time I go outdoors, the Qflash goes with me because it produces the full spectrum of color and delicate skin tones that are essential to my work. Together with the user-friendly wireless TTL CoPilot and the compact Turbo SC I have all the power, control and versatility I need for capturing amazing shots."



www.qtm.com/qflash
800-989-0505



Qflash TRIO



CoPilot

Turbo SC





NET WORTH

TAKING A COOL PHOTO IS ONLY HALF THE FUN. NOW YOU'VE GOT TO SHARE IT! *By Barry Tanenbaum*

DR. ALAN SLOYER, TRAVELING WITH HIS SON in Kochi, India, somewhat reluctantly agreed to a sunset cruise. "It wasn't really my thing," Dr. Sloyer says, but when sunset turned startlingly dramatic it became very much his thing: a passion for photographing memorable travel moments.

He took pictures of "the amazing red ball of the sun," and then things got even more amazing as the sun set and the Chinese fishing nets became silhouetted against a blazing sky.

Shooting in low light at a relatively slow shutter speed from a small boat whose pilot was not concerned with accommodating a photographer required some postproduction vignetting to lose detail in the areas of the photo that showed noise.

Then came promotion of the image, which included posting to social media, entry in a regional Audubon Society photo contest, where it took a category first place award, and submission to the reader's photo section of *The New York Times*, where it appeared on the opening page of the web edition and in the printed paper's Sunday *Travel* section.

There's more, but you get the idea: for Dr. Sloyer, taking the picture is just the beginning. "I've always entered contests, always displayed my photographs," he says. "It's my personality—I'm a push forward person, I'm very driven. I like to see it all, do it all, and once I do it, I like acknowledgement. Where other people may think about it, I do it. I push the work out there."

Or, in other words, sharing the memorable moments is part of his passion. ■

You can see a selection of Dr. Sloyer's work displayed at sloyer.phanfare.com.

Tech Talk: Dr. Sloyer made the photo with a Nikon D90 and an AF-S DX VR Zoom-Nikkor 18-200mm f/3.5-5.6G IF-ED lens. His settings were 1/15 second, f/8, ISO 640, aperture priority, and Matrix metering.

Editor's Note: If you have a fabulous photo you'd like to share with the world, one of the best places to start are Shutterbug's online Galleries: www.shutterbug.com/galleries.

for
adventure
photographers

CLIK
ELITE

The new Luminous™ from Clik Elite- An uncompromising adventure photography pack rugged enough for the backcountry and prepared for extremes. Designed for luxury, function, comfort and mobility.

www.clikelite.com | 888.532.2545 | [facebook.com/clikelite](https://www.facebook.com/clikelite)



By Scott Kelby

HI EVERYBODY! I'm very excited to be launching a new Q&A column here in *Shutterbug*—a magazine I've been reading, and been a fan of, for so many years—so it's truly an honor to be here with you. I invite you to send in your questions to editorial@shutterbug.com, and I'll do my best to answer them in *Ask a Pro*. OK, let's jump right to it:

Q What are the major benefits of studio strobes over speedlights (hot-shoe flash)?

A Strobes are generally much more powerful than speedlights, so they can throw a lot more light when you need it. Also, they're designed to have softboxes attached, so you usually don't have to have special adapters, specially made softboxes, etc. They come with continuous modeling lights built-in which not only help you see your subject, they help your camera's autofocus lock on in dark studio conditions and they give you a preview of how the shadows are going to fall on your subject (all stuff speedlights really don't do).

Plus, since studio strobes plug into the wall, they recycle very quickly, so you can fire off lots of consecutive shots (great for shooting fashion, or kids), without waiting for the flash to recycle, which is something you always have to do with speedlights. Since they're plugged in, you can fire the strobes as long as you want without ever worrying about the batteries dying, or the power of the flash changing as the batteries wear down during your shoot. They have a light stand mount built-in, so mounting them on a light stand doesn't take any special adapters and there are lots more accessories like reflectors, grid spots, barn doors, etc., that are made for use with strobes.

Q I have no problems taking photos indoors with my cell phone, but my DSLR photos indoors are usually a bit blurry or real blurry. How come?

A It's because cell phones often use a version of Auto ISO, which means it raises your cell phone's ISO setting enough to give you a high enough shutter speed so your photos aren't blurry. You don't have to think about it—it just does it. But when you pick up your DSLR indoors, now making sure your shutter speed is high enough for a sharp shot is up to you. And if you don't have your settings right, sure enough, you get blurry photos. So, how do you get around having to babysit your shutter

speed? Well, one way is to steal a page from your cell phone and turn on Auto ISO on your DSLR. Then, set the minimum shutter speed. Auto ISO will allow to something like 1/125 of a second, and your blurry indoor photos will be a thing of the past. One more thing: chances are, you'll see more noise in your images, because it might have to crank up your camera's ISO quite a bit to reach that 1/125 of a second shutter speed. But if you have a choice between a sharp photo with some noise versus a clean photo that's blurry, I'd bet you'll pick the sharp photo every time.

Q What do you go to Photoshop for that you can't do in Lightroom?

A I'm amazed at how much Lightroom can do these days, including creating its own HDR and Panos now in Lightroom CC. But there are still things you need to jump to Photoshop for, like doing any serious portrait retouching, or creating composites (anything from replacing a sky to putting somebody on a different background), or fixing reflections in someone's glasses to creating reflections in water. Lightroom is pretty weak on Type features, so that's another thing to jump over to Photoshop for. Plus, Photoshop has tons of filters for creating special effects. It has Layers, so you can blend images. Photoshop does drop shadows, it bevels, it creates painterly effects, it lets you more easily remove distracting things in your photos. And when it comes to photo restoration, Photoshop is the undisputed champ.

Q If I'm shooting at a location that has windows, so there's natural light, but there's also regular lights in the ceiling above me, how do I know which white balance to choose?

A Try this trick: First, turn on Live View (like you're going to shoot a video with your camera). Now what you're seeing through your lens is displayed live on the back of the camera. Then just go through the different White Balance choices (Cloudy, Tungsten, Daylight, etc.) and stop at the one that looks best. Then turn Live View off. If none of the presets look right, while you still have Live View turned on, go to the K (Kelvin) White Balance setting and turn the dial on your camera to go through the different color temperatures, from cold to warm, until you see one that looks natural. Then turn off Live View.

Q If you could only buy one softbox, what would it be?

A A really big one! Big lights are awesome because: (1) they're very forgiving. The light wraps around your subject really well so if you don't have it in just the right spot, it still looks pretty darn good. (2) The bigger the softbox, the softer the light, so in this case, bigger is better. And (3) you can light more than one person, or easily light full-length shots, which is much harder to do with a small softbox. Check out Westcott's 50-inch Recessed Mega JS Apollo softbox for hot-shoe flash. It's huge and a bargain at around \$169. ■

Scott Kelby (www.scottkelby.com) is editor and publisher of the Photoshop User Magazine, president and co-founder of the National Association of Photoshop Professionals (NAPP), and president of Kelby Media Group, a Florida-based software training, education, and publishing firm. Kelby is also a designer and the award-winning author of more than 50 books on photography, software, lighting, and many other imaging-related topics.

Editor's Note: Shutterbug is excited to launch a new Q&A column from professional photographer, writer, and educator Scott Kelby. Scott is here to answer all your photography-related questions, so if you have something you'd like to know, e-mail him at editorial@shutterbug.com and your query could be featured in the next edition of *Ask a Pro*.

The moment mirrorless photography
found its creative partner.

The new Batis lenses from ZEISS.



// NEW PRO ERA

MADE BY ZEISS



ZEISS Batis 2/25 and 1.8/85 with OLED display and auto focus.

The new era of mirrorless cameras combined with new ZEISS Batis lenses creates a whole new world of possibilities. With outstanding image quality, advanced design and an innovative OLED display for adjusting depth of field, demanding photographers will be able to view the exposure as they create it, make exposure adjustments as they shoot, and create extraordinarily refined images right out of the camera. Compact, nimble, unobtrusive and easy to use, the ZEISS Batis lenses support the most creative image composition, whether manually focused or auto-focused. Technology and creativity have come together to change the way photographers shoot.

Learn more about ZEISS Batis lenses and the new era at: www.zeiss.com/batis



We make it visible.

PENTAX K-S2

Image Tech lab tests and comments supplied by BetterNet, Shutterbug's TIPA-affiliated testing lab. Shutterbug is the sole US representative within TIPA, a worldwide association of photo and imaging magazines.

Edited by George Schaub

The Pentax K-S2 is an entry-level SLR system. It offers 20MP resolution, a built-in image stabilizer, a Wi-Fi module, and is able to record Full HD videos.



The camera offers a three-inch LCD with 921,000 RGB dots. A four-way cursor field and two setup dials (one on the back, the second on the front) allow for comfortable selection of all image parameters.



The Pentax K-S2 has a fully articulated LCD monitor, helpful when taking photos or recording videos.

THE K-S2 IS THE NEWEST SLR system from Pentax. The new camera is an entry-level system, but not as gimmicky as the LED light show provided by the Pentax K-S1.

CAMERA BUILD & LAYOUT

The Pentax K-S2 offers a more classical handling and design concept than its predecessor with a standard mode dial on the top and two setup dials for exposure parameters (one near the shutter release button, the second on the back of the camera). For menu navigation, it offers a standard control field, which uses four buttons to navigate or to select functions such as white balance, ISO speed, and shooting mode.

Just like all Pentax cameras, the K-S2 offers a function button with a green dot, which allows the user to reset parameters to a default setting. An additional button on the left-hand side of the body allows for switching into Raw mode directly without using the menu, plus the image size and quality settings, all very handy features.

The camera is protected against dust and humidity, which allows use even if it is raining. The body is well balanced for steady handling. The K-S2 offers an internal image "shake reduction system" based on sensor shift technology. Pentax specifies a 3 EV compensation for this stabilizer system, which was confirmed during our tests.

In contrast to many other entry-level systems, the Pentax K-S2 offers an optical viewfinder with 100 percent field of view. This is helpful for image composition. The LCD monitor can also be used as a viewfinder (100 percent field of view as well). It is fully articulated and useful for both video and for making stills at ground level.

The camera offers an integrated Wi-Fi module. This is more convenient than the previous "Pentax FluCard" or Eyefi system offered by other Pentax cameras. The Wi-Fi module supports NFC, which allows the user to establish a quick and easy connection between smartphone and camera.

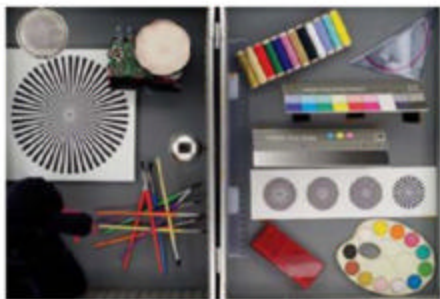
COMMENTS ON IMAGE QUALITY

Color: The Pentax K-S2 showed an ambivalent behavior in our color tests. By default, the camera is set to "Vivid" colors, which causes a very high saturation of all colors, noticeable in red and especially in blue nuances. The mean saturation in this mode is 118.9 percent, which is extremely high for an SLR system and would even be very high for a compact system. The high saturation is noticeable in our test shots,

especially in the color of the red spool and the red T-shirt of our model. Using the "Natural" mode in the color settings (offered in the image menu) substantially reduces the exaggerated saturation and produces very natural-looking colors. Using the Natural setting produces colors with a perfect saturation (99.2 percent) and a very low color error level.

However, all TIPA tests and evaluations are done for all cameras in default color modes: this skews the results and should be considered accordingly.

Sharpness: The Pentax K-S2 showed an average performance in our resolution tests. The K-S2 reproduced the ISO 12.233 chart with 2,894 lines per picture height (nominal sensor resolution: 3,648 lines per picture height). Images have a somewhat softer look than images taken by other cameras with 20MP resolution, noted in our test shots. The differentiation of fine details is good: only red elements have a blurry look because the color saturation is extremely high. The softer reproduction of fine details combined with an intense sharpness filtering causes a slight artificial look of details, noted in the structure of the model's hair in our portrait shot.



The image of the test box was taken with standard settings of P mode at ISO 100. The automatic exposure system caused slight underexposure. Some colors, as seen in the red spool, are highly saturated. The overall look of the image is a bit softer than images taken with other SLR systems.

Noise: Up to ISO 1600, the new Pentax showed a very good performance in the noise tests. The luminance noise does not cross the 1.0 percent line before ISO 3200, and the images look crisp and clean. In images taken with ISO 3200, the color noise becomes visible even though the anti-noise filtering gets very intense (and reduces image details). This combination of anti-noise filtering and color noise artifacts gets quite annoying at the highest ISO speed settings, especially in images taken at ISO 12,800 and higher. At ISO 51,200 the gray patterns of the Stouffer 4110 chart are blurred to a white to black gradient and the figures on the chart show a kind of “color noise halo” on the contrast lines between black and white. (We note that Pentax might consider offering the highest ISO speed modes as additional “High Modes” like nearly all other manufacturers of SLRs, mainly as an option for images made in extremely low-light intensity.)

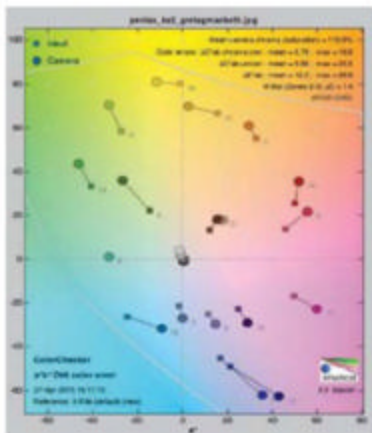
The dynamic range results are very good: The camera achieved a maximum of 11.3 f/stops and keeps a high level of more than 10 f/stops up to ISO 1600.

COMMENTS ON VIDEO FUNCTIONS

The camera offers video in Full HD mode with 1920x1080 pixels. Using Full HD mode restricts the frame rate to a maximum of 30 frames per second. By reducing video resolution to 1280x720 pixels the camera is able to record with up to 60 frames per second. All videos are taken in progressive mode and are recorded as MOV files with a H.264 compression.

To switch into video mode the photographer has to use the on/off switch and toggle into “movie mode.” Pressing the shutter release button will start video recording; there is no second video recording button, which is usually offered by many other cameras.

The camera allows for use of a magnifier function for manual focusing, but a “focus peaking” function is missing. The Pentax also allows the user to shoot in manual exposure mode. In



By default, the camera is set to “Vivid” colors, which causes a very high saturation of all colors, noticeable in red and especially in blue nuances. The mean saturation in this mode is 118.9 percent, which is extremely high for an SLR system. (Switching to Natural mode will alleviate this oversaturation.)



OFF ROAD.

EVERYTHING YOU NEED FOR LIVING YOUR ADVENTURES AND CAPTURING GREAT STORIES.



Off road collection is designed for hikers who want to take outstanding pictures and video. Ultra lightweight, the aluminum tripod and walking sticks are easily transportable. The walking sticks are sold as a set and one pole includes a camera mount enabling the stick to be used as a monopod. Water repellent backpack perfectly protects your camera gear. Tripods and walking sticks are available in 3 colors ●●● Backpack is available in 4 variations ●●●●

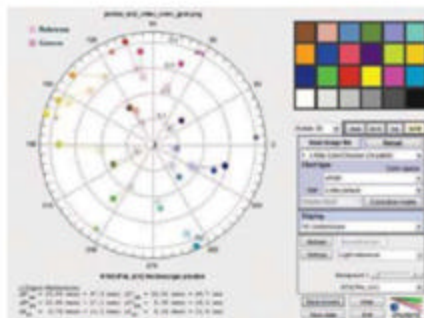
manual exposure mode, the camera allows the ISO speed to be set manually, but is restricted to ISO 3200 when recording video.

The Pentax also allows the user to set sound level manually and to make use of an external microphone.

COMMENTS ON VIDEO QUALITY

The camera reproduced the ISO 12.233 resolution chart with only 350 lines per picture height (in 1080p mode), which is very low. The look of the videos is much more softer than the look of still images produced by the K-S2. We also noted that even though the video look is extremely soft we noticed moiré effects in our sample shot.

The color reproduction in video mode is similar to the color reproduction in photo mode. The camera uses the "Vivid" color setting as the default color mode and creates highly saturated images. Again, switching to "natural" mode will mollify this situation. The dynamic range results do not reach the high level of the photo mode. The camera achieved a maximum of 6.12 f/stops when recording videos. ■



The color reproduction in video mode is similar to the color reproduction in photo mode. The camera uses the "Vivid" color setting as the default color mode and creates highly saturated images. (As noted in still quality comments, switching to Natural mode is suggested.)

SCORECARD

PROS

- APS-C SLR with good image results
- Optical viewfinder with 100 percent field of view
- Built-in image stabilizer works with every lens system
- Wi-Fi and NFC system

CONS

- Poor video results
- Missing GPS system

The Pentax K-S2 has a list price of \$699 (body only). For more information, visit www.us.ricoh-imaging.com.



Skin tones and red nuances in the portrait test are a bit oversaturated. The intense sharpness filtering causes a slightly artificial look in fine details, noted in the hair structure of the model.

IMAGE TECH is where we publish web-exclusive lab reports on cameras. To read the reports please go to the *Shutterbug* homepage at www.shutterbug.com and click on the Image Tech tab on the top navigation bar. New reports are published frequently, so check Image Tech for updates.



VIEWFINDERBOOK



LEARN
IMPROVE
EXPLORE

A GREAT TOOL FOR
PHOTOGRAPHY LOVERS
OF ALL LEVELS.

\$9.99

VIEWFINDERBOOK.COM

Designed for tablets, phablets and computers.



Metal Prints that Will Stop You in Your Tracks!



THE BEST PRICES, THE HIGHEST QUALITY CHROMALUXE® METAL PRINTS

Inks are infused directly into specially coated aluminum sheets. Your images take on a bright, vibrant, luminescent quality when printed on metal through this process.

SIZE	PRICE
8 x 12	\$20.95
16 x 24	\$69.95
20 x 30	\$99.95

THIS IS ONLY A SAMPLE,
WE OFFER METAL PRINTS IN
OVER 20 SIZES
FROM 4X8 TO 30X40

FIVE PRINT SURFACES

Metal prints are available in five different surfaces: Standard Glossy, Standard Semi-Gloss, Standard Matte, Brushed Aluminum Glossy and Brushed Aluminum Matte.

FIVE HANGING/MOUNTING OPTIONS

Mounting options include: Easel Backs, Float Mount, Shadow Mount, StandOuts (with 1/8th reveal and flush cut), and Stainless Steel Posts.

Aspen Photo Art by Larry Bennett

Clear Lake Colorado sets above timberline, about 13,000 ft. close to the old mining town of Silverton. This image is a 7 exposure HDR, shot early morning, in the Summer of 2012, with 24-70mm zoom on a Canon 7D.

We are a complete professional lab offering a wide variety of products including: professional prints in over 80 sizes (from wallet up to our 10 ft. long Panoramix™ prints), StandOuts, books, albums, cards, iPhone covers, mugs, and much more.

PROFESSIONAL PRINTS

8x10 for only \$1.69

Your choice of **LAB CORRECTED** or **NO CORRECTION** for the same price.



IMAGE BY THERESA THURMAN

Great Prints. Great Prices. Easy Ordering. **It's that Simple.**

meridian
Professional Imaging

meridianpro.com | 800-544-1370



Leica M Monochrom (Type 246)
\$7,450
us.leica-camera.com

BLACK-AND-WHITE BEAUTY

Black-and-white photography mavens have a new go-to camera. Called the Leica M Monochrom (Type 246), it's the updated version of the venerable German imaging company's black-and-white-shooting digital rangefinder. The M Monochrom is the only digital camera to capture true black-and-white images without the help of filters or image processing. The new Type 246 model shoots three times faster than its predecessor while displaying

images more quickly on its three-inch, 921,600-pixel LCD screen, which boasts a nearly unbreakable, anti-reflective sapphire crystal cover. The M Monochrom (Type 246) captures images with a 24-megapixel, monochrome-only CMOS sensor that's designed to produce sharp black-and-white photos up to ISO 25,000. This chic, classic-looking rangefinder can also shoot Full HD video in black and white.

The Berlin II from ONA
\$399
onabags.com



SWEET SATCHEL

Discreet street shooters are sure to go gaga over this tastefully luxurious new camera bag from ONA. The black leather Berlin II bag is the follow-up to a tan "vintage Bourbon"-toned model from last year. While the Berlin II was created to celebrate 100 years of Leica photography and is designed specifically for the M-System, it's suited for any mirrorless compact system camera or even a small DSLR setup. It's handcrafted with full-grain leather and is complemented by gunmetal hardware, including a Leica-like red rivet dot on one of the straps. It also has a customizable red interior that's padded with premium closed-cell foam. There's room for one compact system camera (Leica or otherwise), two to three lenses, an iPad, and a few small personal items. The Berlin II has a zipped organizer pocket, a removable top-grab handle, and a streamlined back pocket.

(Editor's Note: The Goods is a new feature in Shutterbug that spotlights the hottest premium photo gear out there. If you have a product you'd like considered for The Goods, e-mail images and info to editorial@shutterbug.com.)



LAP OF LUXURY

If you're looking to upgrade your laptop, now's a good time. Apple has revamped its 15-inch, Retina display-based MacBook Pro with the new Force Touch trackpad, which uses built-in force sensors and a Taptic Engine to give you haptic feedback when you touch it. The result is the trackpad feels like it's clicking but it's actually not moving at all. The updated trackpad features a range of new gestures—including Force click—to make accessing and working on your photos easier. The new 15-inch MacBook Pro

with Retina display also offers up to 2.5 times faster flash storage than the previous model, with throughput rated at up to 2GBps. Other upgrades include an additional hour of battery life, and up to 80 percent faster overall performance, which should make editing photos a breeze.

15-inch MacBook Pro with Retina Display
Starting at \$1,999
apple.com



NIGHT SHOOTER

Lenses with obscenely fast apertures for extreme low-light shooting have mostly been the domain of DSLR and rangefinder camera systems. That changes with the Voigtlander 10.5mm f/0.95 Nokton Lens for Micro Four Thirds. This exotic piece of glass has a 21mm equivalent focal length and an ultra-bright, blazing-fast f/0.95 maximum aperture, making it ideal for low-light still photography and video. It features an aspherical lens construction to help limit aberrations and keep it compact. The lens' all-manual design has physical focusing and aperture rings and users can select either clicked or clickless aperture stops. Minimum focusing distance is 6.7 inches to allow for close-up photography, while the lens' 10-blade aperture diaphragm will produce gorgeous out-of-focus elements, aka bokeh, in your images. It's built with 13 lenses in 10 groups and the angle of view is 93 degrees.

Voigtlander 10.5mm f/0.95 Nokton Lens (for Micro Four Thirds)
\$1,699
voigtlaender.com

New, Used, Refurbished, Preowned Collectables At Discounted Prices

More Than 50 Years Of Experience

NEW LENSES

**SPECIAL SALE
ON AUTOFOCUS LENSES
FOR MINOLTA MAXXUM
& SONY ALPHA CAMERAS
FILM AND DIGITAL CAMERAS**



New 24-70mm F3.5-5.6 AF Sigma ASPHERICAL zoom lens	\$149.99
New 28-105mm F4-5.6 AF Sigma UC zoom lens	\$99.99
New 28-105mm F3.8-5.6 AF Sigma UC III zoom lens	\$129.99
New 28-200mm F3.5-5.6 AF Sigma UC zoom lens	\$149.99
New 35-135mm F4-5.6 AF Sigma zoom lens	\$99.99
New 28-80mm F3.5-5.6 AF macro Cosina zoom lens	\$49.99
New 28-210mm F3.5-5.6 AF Cosina zoom lens	\$94.99
New 70-210mm F4-5.6 AF Cosina zoom lens	\$79.99
New 100-300mm F5.6-6.7 AF Cosina zoom lens	\$99.99
New 35-70mm F3.5-4.5 macro Tokina AF zoom lens	\$49.99
New 28-105mm F3.5-5.6 Tokina AF zoom lens	\$199.99
New 28-105mm F2.8-3.5 auto MD Cosina lens	\$129.99
New 28-210mm F3.5-5.6 auto MD Phoenix lens	\$99.99

NEW GITZO TRIPOD



Traveler 4 Section G-Lock Tripod for Cameras.....	\$669.99
Gitzo GK2500T Tripod	\$679.99
Gitzo GB3560 Carbon Fiber 6 Section 6X G-Lock	\$359.99
Microphone Boom	\$33.33
Gitzo G1373/38B Aluminum Standard Quick Release	\$39.99
Gitzo Series 5 Systematic 4 Section Tripod	\$938.93
G12542LS Gitzo Ser.2 6x Systematic 4s Carbon fiber	\$829.95
Gitzo GT2541EX Series 2 Carbon 6x 4 Section G-Lock	\$599.00
Explorer Tripod Black	\$645.49
Gitzo GT1542 Mountaineer Tripod Ser.1 4S (Black)	\$645.49
Gitzo GK1580T Ocean Traveler Series 1 Carbon Fiber Anti-Corrosion 4 Section	\$1148.99
Tripod (Black)	
Gitzo GK1580TQR5 Series 1 6X Carbon Fiber Traveler	\$899.88
Tripod Kit for Cameras	
Gitzo GK1580TQR4 Traveler Kit, Series 1 Carbon 4 sections,	\$717.00
Ball Head QD (Multi Color)	
Gitzo GH5750QR Series 5 Magnesium Quick Release Off Center	\$336.70
Ball Head	\$263.95
Gitzo GH2780QR Series 2 Safari Ball Head with Quick Release	\$263.95
Gitzo GH2750 Series 2 Magnesium Off Center Ball Head (Grey)	\$177.08
Gitzo GH1780QD Centre Ball Head Series 1 Quick Release D	\$263.29
Gitzo GC2560 Neoprene Tripod Leg fits Series 1 and 2 Gitzo Tripods	\$49.95
Gitzo GB1340 Series 1 Microphone Boom 4 Section with G-Lock	\$134.76
Gitzo GB1033 Series 0 3 section Microphone Boom with G-Lock	\$99.95
Gitzo G2180 Series 1 Fluid Head	\$259.88

FILM SPECIAL - ALL FRESH DATED FILMS!

Kodak TMAX 400 TMY-36	\$6.38
Kodak TMAX 100 TMX-36	\$4.94
Kodak Ultramax GC-36	\$3.28
Kodak TRI-X 36	\$4.88
Kodak Portra 800 - 36	\$9.98
Kodak Ektar 100-36	\$5.49
Kodak TRI-X 120 - 5 rolls	\$24.24
Kodak Ektar 100-120 - 5 rolls	\$24.49
Agfa Vista Plus 400-36	\$3.08
Agfa Vista Plus 400-24	\$2.78
Agfa Vista Plus 200-36	\$2.68
Agfa Vista Plus 200-36	\$2.98
Agfa APX 400-36	\$6.28
Agfa APX 100-36	\$6.49
Agfa CT Precisa Color Slide- 100-36	\$9.94
Ilford Delta 100 100'	\$64.94
Ilford Pan F 50 120'	\$4.94
Ilford Pan F 50 100'	\$50.94
Ilford Delta 3200 120'	\$5.94
Ilford Delta 3200-36	\$10.98
Ilford XP 2 Super 36	\$6.48
Ilford Delta 400-120	\$4.94
Ilford HP5-120	\$4.08
Ilford FP4 - 120	\$4.38
Ilford Delta 100-120	\$4.49
Ilford Pan F 36	\$6.49
Ilford Delta 400-36	\$6.28
Ilford Delta 100-36	\$6.24
Ilford FP4 - 36	\$4.98
Ilford SFX 200-36	\$7.98
Ilford HP5 - 36	\$4.74



NEW LATEST MODEL



TILTALL TC-284 Carbon Fiber TRIPOD	\$355.95
TILTALL TC-254 Carbon Fiber TRIPOD	\$324.95
TILTALL TC-224 Carbon Fiber TRIPOD	\$289.95
TILTALL TE-254 TRIPOD	\$145.95
TILTALL TE-284 TRIPOD	\$158.95
TILTALL TE-284 TRIPOD	\$184.95
TILTALL TE-01S Silver Tripod	\$174.95
TILTALL TE-01B Black Tripod	\$174.95
TILTALL TE-01G Gold Tripod	\$194.95
TILTALL MP-284C Carbon Fiber MONOPOD	\$99.95
TILTALL MP-315C Carbon Fiber MONOPOD	\$129.95
TILTALL MP-315 MONOPOD	\$75.95
TILTALL BH-30 TRIPOD BALL HEAD	\$148.95
TILTALL BH-20 TRIPOD BALL HEAD	\$133.95
TILTALL BH-10 TRIPOD BALL HEAD	\$114.95
TILTALL BH-7 TRIPOD BALL HEAD	\$99.99

NEW! Manfrotto



Manfrotto MTPIXI-RD PIXI Mini	
Tripod (Red)	\$23.88
Manfrotto MTPIXI-B PIXI Mini Tripod, Black	\$24.88
Manfrotto MVH500A Pro FluidHead with 60mm	
Half Ball (Black)	\$170.41
Manfrotto MT190CXP3 Section Carbon Fiber Tripod	
Legs with Q90 Column (Black)	\$326.99
Manfrotto MT055CXP3R04 055 Carbon Fiber 4-Section Tripod	
with Horizontal Column (Black)	\$459.95
Manfrotto 808RC4 3-Way Standard Head with Quick Release	
Plate 410PL (Black)	\$118.99
Manfrotto 755XB MDEVE Aluminum Tripod with Built in	
50mm Ball Lever	\$299.88
Manfrotto 709B Digi Table Top Tripod with Ball Head	
(Black)	\$48.13
Manfrotto 496RC2 Ball Head with Quick Release	\$86.50
Manfrotto 496 Ball Head	\$79.88
Manfrotto 394 RC4 Low Profile Rectangular Rapid Connect	
Adapter with 410PL Plate - Black	\$46.90

ZERO HALLIBURTON



NEW!
Free Shipping on all
Zero Halliburton orders!

Zero Halliburton CP3-BK	\$675
Zero Halliburton CP3-SI	\$595
Zero Halliburton CP4-BK	\$695
Zero Halliburton CP4-SI	\$625
Zero Halliburton CSE3-LPB	\$435
Zero Halliburton CSE3-LSI	\$365
Zero Halliburton CS3-LPB	\$435
Zero Halliburton CS3-LSI	\$375
Zero Halliburton CS4-LSI	\$385
Zero Halliburton CP4-Stealth	\$2500

We carry a complete line of all the Zero Halliburton
Case and Luggages - Call For Price or e-mail!

NEW SENSOR KCLEAR LOUPE KIT FOR DSLR CAMERAS



\$49.99

Panasonic K-KJ17MCC82A eneloop Power Pack,
2100 Cycle, 8AA, 2AAA, 2 "C" Spacers, 2 "D"
Spacers, "Advanced" Individual battery charger. \$39.99

LumiQuest

NEW SPECIAL FLASH ACCESSORIES



LumiQuest LQ-145 Mini Kit: with SoftScreen, Mini SoftBox, & UltraStrap.....	\$35.95
LumiQuest LQ-140 Photography Starter Kit (Black)	\$35.95
LumiQuest LQ-135 Ready for Anything Kit	\$67.95
LumiQuest Wedding/Event Kit LQ-134	\$58.95
LumiQuest 9-Piece Colored Gel Strobist Kit LQ-132	\$67.95
LumiQuest UltraStrap LQ-126	\$9.95
LumiQuest SoftBox LTp LQ-124	\$51.95
LumiQuest SoftBox III LQ-119	\$43.95
LumiQuest Mini SoftBox LQ-108	\$25.95
LumiQuest SoftBox LQ-107	\$39.95
LumiQuest Pocket Bouncer LQ-101	\$26.95

Free! Shipping on all LumiQuest items!

Binocular Special!

Top Quality
Brand New



7X35 Center Focus with Case	\$39.95
7X50 Center Focus with Case	\$49.95
8X20 Center Focus compact with Case ..	\$39.95
8X30 Center Focus with Case	\$59.95
10X25 Center Focus with Case	\$39.95
10X50 Center Focus with Case	\$59.95
12X50 Center Focus with Case	\$69.95
16X50 Center Focus with Case	\$69.95
20X50 Center Focus with Case	\$79.95



NEW 35mm Auto Focus Film Cameras

Konica V-Mini AF 28mm Lens	\$69.95
Samsung Slim Zoom 1150 38mm to 115mm Zoom	\$79.95
Konica A4 35mm Lens	\$49.95
Samsung Maxima Zoom 70 XL	\$59.95
Samsung Maxima Zoom 105 38mm to 105mm Zoom	\$69.95
Samsung ECXI Zoom 38-140mm Zoom	\$99.95
Samsung IBEX 3x 38-115mm Zoom	\$49.95
Samsung Fino 70S 38-70mm Zoom	\$59.95
Yashica Zoom Mate 140 38-140mm Zoom	\$89.95
Nikon Lite Touch Zoom 80	\$59.95

650-1300mm/ 1300mm-2600mm Super Zoom Lens Kit with 2x Teleconverter

NEW!



ROKINON
Pro Performance Lens

\$279.00

Available for almost any Current or OLD Digital or
Film Interchangeable Lens DSLR, SLR or Mirrorless
Cameras (Please specify your camera)

ROKINON Pro Performance Lens

NEW!



500mm/ 1000mm
Telephoto Lens Kit
with 2x
Teleconverter

\$129.00

Available for almost any Current or OLD Digital or
Film Interchangeable Lens DSLR, SLR or Mirrorless
Cameras (Please specify your camera)

60-18 FRESH POND ROAD, MASPETH/QUEENS, NEW YORK 11378

1-800-221-2253 • 1-718-858-5002 • 1-212-675-8600 email: Sales@CambridgeWorld.com

WWW • CAMBRIDGEWORLD • com

New, Used, Refurbished, Proowned Collectables At Discounted Prices
We Buy, Trade, Export, Import Anything Photographic, Online Sales & Wholesale

1-800-221-2253 • 1-718-858-5002 • 1-212-675-8600

WE WILL BEAT AND MEET DISCOUNT PRICES!
CALL OR EMAIL US AND WE WILL SAVE YOU \$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$

NEW DIGITAL & FILM CAMERAS

LENSES, FLASHES, SCREENS
PAPER AND ACCESSORIES

Canon, Casio, Fuji, Hasselblad, Kodak, Leica, Mamiya, Nikon, Olympus, Panasonic, Pentax, Polaroid, Samsung, Sanyo, Sigma, Sony, Vivitar, Etc.

Memory Cards • Delkin, Kingston, Lexar, SanDisk, Nikon
Fuji, Olympus, Sony, Panasonic, Etc. **CALL**

Large selection of BATTERIES available at discount prices.... **CALL**

LARGE SELECTIONS OF NEW AND USED CLASSIC CAMERAS

LENSES AND ACCESSORIES IN STOCK AT LOW DISCOUNT PRICES!

Agfa, Alpa, Ansco, Arca-Swiss, Bolex, Bronica, Canon, Contax, Edixa, Exa, Exakta, Fuji, Fujica, Gami, Hasselblad, Kodak, Konica, Kowa, Leica, Leitz, Linhof, Mamiya, Mercury, Minolta, Minox, Miranda, Nikon, Nikonos, Olympus, Pentacore, Pentax, Petri, Plaubel, Polaroid, Praktica, Praktina, Retina, Revue, Ricoh, Robot, Rollei, Rolleiflex, Sea & Sea, Stereo Realist, Tessina, Topcon, Toyo, Voigtlander, Wollensak, Yashica, Zeiss, Etc.

Vivitar
NEW SERIES 1 LENSES
7mm F3.5.....\$24.95 13mm F2.8.....\$49.95
35mm F1.4.....\$49.95 85mm F1.4.....\$199.99
500mm F2.8.....\$99.99 500mm F2.8.....\$124.95

650-1300mm F8-16 Zoom Lens...\$239.99
800mm F8...\$189.00
8mm F3.8...\$189.00

NEW FLASHES
16M.....\$19.95 DF 183 AF.....\$44.95
DF 283 AF.....\$89.95 285HV.....\$7.00
DF 283 AF.....\$89.95 DF 383 AF.....\$124.95
385 HV.....\$49.95 DF 483 AF.....\$159.95

for the iPhone & Samsung Galaxy includes the iPhone
4, 4s, 5 & 5S & Samsung Galaxy S4 as well as the iPad2, iPad Mini, Mini Retina & iPad Air too.
• High Resolution Top Quality Lenses
• 2X Telephoto Lens • Macro Lens
• Wide Angle Lens All for **\$229**

Schneider
25mm T2.1 Xenon FF Lens
35mm T2.1 Xenon FF Lens
50mm T2.1 Xenon FF Lens
75mm T2.1 Xenon FF Lens
100mm T2.1 Xenon FF Lens

LENSES

We Offer MORE THAN 1,000 DIFFERENT

LENSES at LOW DISCOUNT PRICES!!!
Canon, Cosina, Nikon, Pentax, Olympus, Leica, Sony, Minolta, Vivitar, Schneider, Mamiya, Hasselblad, Rodenstock, Zeiss, etc.

4.5mm F2.8.....\$38.95	50mm F1.4.....\$35.95
8mm F3.5.....\$28.95	50mm F2.8.....\$24.95
10mm F2.8.....\$98.95	70mm F2.8.....\$46.95
15mm F2.8.....\$68.95	105mm F2.8.....\$48.95
19mm F2.8.....\$178.95	150mm F2.8.....\$68.95
20mm F1.8.....\$58.95	180mm F2.8.....\$148.95
24mm F1.8.....\$49.95	300mm F2.8.....\$298.95
28mm F1.8.....\$30.95	500mm F4.5.....\$458.95
30mm F1.4.....\$278.95	10-20mm F4.5-6.....\$478.95
35mm F1.4.....\$48.95	10-20mm F3.5.....\$48.95
60mm F2.8.....\$278.95	10-20mm F4.....\$39.95
400mm F5.6.....\$299.95	17-70mm F2.8-4.5.....\$48.95
85mm F1.4.....\$48.95	18-35mm F1.8.....\$74.95
800mm F5.6.....\$698.95	18-200mm F3.5-5.6.....\$238.95
12-24mm F4.5-5.6.....\$748.95	18-250mm F3.5-5.6.....\$358.95
18-50mm F2.8.....\$188.95	24-70mm F2.8.....\$79.95
18-50mm F2.8.....\$375.95	17-50mm F2.8
8-16mm F4.5-5.6 DC.....\$618.95	EX DCOS HSM.....\$48.95
28-70mm F2.8-4.....\$88.95	28-70mm F2.8.....\$318.95
28-200mm F3.5-5.6.....\$174.95	28-300mm F3.5-6.3.....\$234.95
35-135mm F4.5-5.6.....\$99.95	50-150mm F2.8.....\$69.95
50-150mm F2.8.....\$98.95	55-200mm F4.5-6.....\$124.95
50-200mm F2.8.....\$68.95	70-300 F4.5-6.....\$138.95
50-500mm F4-6.3.....\$948.95	70-300mm DGOS.....\$248.95
70-200mm F2.8.....\$88.95	100-300mm F4.5-6.....\$99.95
70-300 F4.5-6 APO.....\$1148.95	120-300mm F2.8.....\$269.95
100-300mm F4.....\$1098.95	120-400 F4.5-5.6.....\$938.95
200-500mm F2.8 APO EX DG.....\$2598.95	300-800mm F5.6 EX BE HSM.....\$769.95
300-800mm F5.6 EX BE HSM.....\$769.95	1.4X APO.....\$218.95
1.4X APO.....\$218.95	2X APO.....\$278.95

KENKO TELECONVERTER
1.4x.....\$9.95 1.5x.....\$4.95 2x.....\$12.95 3x.....\$21.95

SAMYANG/ROKINON/BOWER
7mm F3.5.....\$29.00 8mm F3.5.....\$29.00 10mm F2.8.....\$39.00
50mm F1.4.....\$49.00 85mm F1.4.....\$29.00 500mm F8.....\$219.99
500mm mirror.....\$119.99 500mm F6.3.....\$159.99 800mm F8.....\$219.99
24mm F1.4.....\$69.00 24mm F3.5 Tilt and Shift.....\$99.00
650-1300mm F8-16 Zoom Lens.....\$279.99

CINE LENSES
8mm T3.8.....\$329.00 14mm.....\$31.44 40mm T1.5.....\$749.00
35mm T1.5.....\$49.00 85mm.....\$11.5 349.00

NEW SCHNEIDER PC TS LENSES
502.8 HM Super Angulon.....\$3498.99
904.0 HM Makro-Symmar.....\$3198.99
1205.6 HM Aspheric Apo-Digitar.....\$4698.99

IF YOU DO NOT SEE IT, IT DOESN'T MEAN WE DO NOT HAVE IT.

ASK
1-800-221-2253

HEADQUARTERS!!!
Large selections of NEW & USED LEICA cameras, lenses, filters and accessories at low discount prices ASK for Joseph

NEW Polaroid INSTANT DIGITAL CAMERA
Print your pictures **148.99**

LARGE SELECTION OF PROJECTION BULBS...CALL ALEX 1-800-221-2253

INSTRUCTION MANUALS/BOOKS
WE DO HAVE MORE THAN 5000 INSTRUCTION BOOKS IN STOCK CALL US AT 1-800-221-2253 AND ASK FOR PAUL OR EMAIL US AT SALES@CAMBRIDGEWORLD.COM

SPECIALS OF THE MONTH

FRESH COLOR & B&W INSTANT FILM FOR POLAROID SX70 & POLAROID 600 SERIES CAMERAS \$24.99 PER BOX

Rollei & Rolleiflex Headquarters
* Large selections of new and used Rollei and Rolleiflex cameras, lenses and accessories at discount prices!!!!
CALL William 1-800-221-2253
Special Prices on Rollei 6000 Series

NOVOFLEX **CALL**

EXPOSURE LIGHT METERS
Cambron, Gossen, Kenko, Sekonic, Minolta, Pentax, Polaris, Shepard, Soligor, Spectra, Wein, Etc. **CALL**

FLASHES Ansam, BRNO, Canon, Cambron, Elinchrom, Gary, Goto, Metz, Minolta, Muhlitz, Nikon, Novacan, Norman, Novatron, Olympus, Pentax, Photogenic, Quattri, Sigma, Strobeframe, Stratos, Smith Victor

PROJECTORS & VIEWERS
Braun, Canon, Epson, GEPE, Kodak Carousel, Ektagraphics, Kaiser, Panasonic, Optoma, Sanyo, Sharp, Telex, Da-Lite Screens, Slid, Moer, V. **CALL**

DARKROOM/ENLARGERS
Beseler, Durst, Fujimoto, KAISER, LPL, Omega, Etc. Enlarging Lenses & Darkroom Accessories. Large selection of papers available (Kodak, Ilford, Fuji, Fort, Etc.) **CALL**

LARGE & MEDIUM FORMAT
Alpa, Arca Swiss, Bronica, Contax, Fuji, Cambron, Hasselblad, Linhof, Kiev, Mamiya, Pentax 645D Digital Camera, Rollei, Rolleiflex, Toyo, Wista, Yashica, Etc. **CALL**

TRIPDS
Arca Swiss, Bogen, Cambron, Cullman, Berlebach, Giotto, Davis & Sanford, Gitzo, Impact, Linhof, Manfrotto, Slik, Sunpak, Titali, Vanguard, Velbon, Etc. **CALL**

FILM (ALL SIZES)
Kodak, Ilford, Fuji, Polaroid, AGFA, Etc. **CALL**

CASES & GADGET BAGS
Billingham, Bob Lee, Domke, Lowepro, Pelican, Rimowa, Tamrac, Tenba, Zero Halliburton **CALL**

TESTIMONIAL OF THE MONTH

Happy with the quality, speed of shipping and the price!
Cheryl A. Terry Hope Valley, RI
See more testimonials on our website.

SELL TO US!!

WE PAY FOR YOUR RETIRED GEAR!

TOP DOLLAR\$\$\$
Nothing is too Small or too Large Anything Photographic!!!!
Estate Sales Welcome!!! You can mail your gear or we can pick your gear up. You can trade-in your gear or we will pay you with a check or with Paypal. **CALL 1-800-221-2253** and ask for Simon Or Email us at sales@cambridgeworld.com. Send your equipment for a FREE evaluation to:

Cambridge World 60-18 Fresh Pond Rd., Maspeth, Queens, N.Y. 11378

TOP QUALITY EXPERIENCED REPAIR SERVICE!
AT DISCOUNT PRICES! Send your equipment for a FREE repair estimate to: Cambridge World
60-18 Fresh Pond Rd., Maspeth, Queens New York 11378

USED DEPARTMENT
We have more than 30,000 Used Items. Email us your Wish List at sales@cambridgeworld.com or CALL 1-800-221-2253 and we will assist you and SAVE you \$\$\$\$\$\$. No item is too small or large. Listing is very partial.

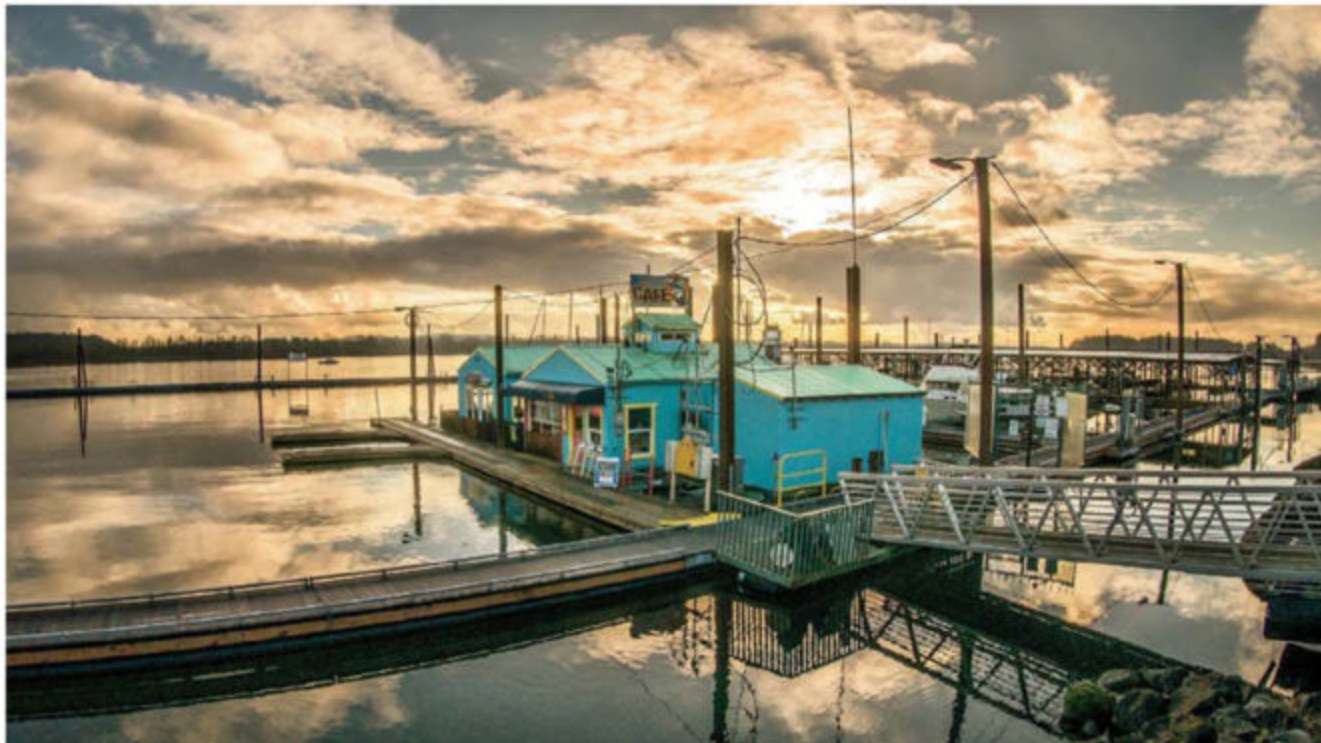
Bronica S2A, E.C. Call	Bronica GS1.....\$399.50	Canon 24mm F1.4.....\$989.00	Olympus XA.....\$799.00
Bronica ETR.....\$99.95	Bronica SQ camera.....\$199.99	Canon 50mm F1.4.....\$79.50	Minolta 160.....\$699.00
Canon AE.....\$79.99	Canon IV.....\$499.99	Canon 85mm F1.2.....\$1,299.00	Minolta 70.....\$499.00
Canon Elan.....\$99.99	Canon IX.....\$69.99	Canon 300mm F2.8.....\$2,199.00	Canon 120.....\$799.00
Canon rebel 2000.....\$89.99	Canon Elan.....\$69.99	Canon 16-35mm F2.8.....\$899.00	Canon 105.....\$499.00
Canon F1.....\$119.99	Canon VT.....\$299.99	Canon 28-300mm F3.5.....\$1,299.00	Leica minilux.....\$199.99
Canon rebel XT.....\$299.99	Canon XT.....\$399.99	Canon 24-105mm F4.....\$789.00	Contax T2.....\$199.99
Contax G2.....\$699.99	Contax N1.....\$349.99	Canon 28-300mm F3.5.....\$1,299.00	Yashica T4.....\$99.99
Contax RTS III.....\$699.99	Exakta RTL.....\$149.99	Canon 70-200mm F2.8.....\$1,199.00	Nikon tele touch.....\$499.00
Exakta VY.....\$99.99	Fuji Digital S3.....\$299.95	Canon 100-400mm F4.5.....\$1,199.00	Konica 120.....\$499.00
Fuji S3 digital.....\$599.95	Exakta VY 1000.....\$129.50	Canon 430EX.....\$129.00	Nikonos II.....\$999.00
Hasselblad 500C.....\$149.99	Hasselblad 503CW.....\$499.95	Canon 580EX.....\$269.00	Olympus 140.....\$499.00
Retina Reflex.....\$99.99	Leica III.....\$699.99	Canon 24-70mm F2.8.....\$899.95	Pentax 115.....\$99.99
Leica IF.....\$499.99	Leica R3.....\$999.99	50mm F1.4 Zeiss Planar.....\$209.00	Olympus 105.....\$499.00
Leica IIIIf.....\$299.99	Minolta X700.....\$99.99	80-200mm F4 sonnar.....\$199.00	Rollei 35.....\$129.99
Leica R3.....\$199.99	Mamiya 110mm RTZ.....\$229.99	Hasselblad 150mm F4.....\$299.00	Olympus 7000.....\$399.00
Minolta RB67.....\$199.99	Maxum HTS1.....\$69.99	Leica 50mm F2.8 Summicron M.....\$399.00	Petri V.....\$79.99
Mamiya XT1.....\$99.95	Maxum 5000.....\$39.95	Leica 135mm F4.5 Elmarit Snow.....\$129.00	Epson.....\$69.99
Maxum 7000.....\$49.95	Maxum 7001.....\$119.95	Leica 50mm F2.8 Summicron R.....\$349.50	Praktica T.....\$69.99
Maxum 9000.....\$69.95	Maxum 7D.....\$299.99	Mamiya 55mm F2.8.....\$99.00	Rick XR.....\$99.99
Maxum SD.....\$199.95	Nikkormat FT2.....\$119.94	Mamiya 180mm F4.5.....\$149.00	Canon canon.....\$499.00
Nikkormat FTN.....\$99.95	Nikon F2.....\$119.99	Minolta 50mm F1.7.....\$19.00	Canon dslr.....\$499.00
Nikon F.....\$99.99	Nikon F100.....\$199.99	Minolta 80-200mm F3.5.....\$49.00	Canon P.....\$239.99
Nikon FA.....\$169.99	Nikon FM10.....\$129.99	Minolta 5400HS.....\$79.99	Hasselblad x-pen.....\$999.99
Nikon F3.....\$129.99	Nikon D40.....\$199.99	Maxum 50mm F1.7.....\$69.95	Mamiya 500TL.....\$799.00
Nikon F5.....\$349.99	Nikon N8008.....\$79.95	Maxum 50mm F1.4.....\$69.00	Rick XR.....\$99.99
Nikon D200.....\$499.99	Nikonos II.....\$79.95	Nikon 18-200mm F3.5.....\$349.00	Leica CL.....\$199.99
Nikon N90.....\$99.99	Olympus OM4.....\$179.99	Nikon 80-200mm F2.8.....\$399.00	Mamiya 645E.....\$199.99
Nikonos V.....\$179.99	Pentax 80-160mm F4.5-5.6.....\$229.99	Nikon SB600.....\$269.00	Mamiya C220.....\$999.00
Olympus OM1.....\$99.99	Pentax 120mm F4.5 Macro.....\$399.99	Nikon SB900.....\$349.00	Yashicamat.....\$129.99
Pentax K1000.....\$99.99	Pentax 645.....\$249.99	Olympus 70-210mm F4.5.....\$99.00	Minolta 70.....\$599.00
Pentax G45.....\$249.99	Rollei 35M.....\$119.99	Olympus 50mm F1.4.....\$99.95	Minolta 9XL.....\$149.99
Rollei 35.....\$119.99	Rolleiflex F3.5.....\$499.99	Panasonic 14-50mm F2.8.....\$479.00	Samsung 170.....\$69.99
Topcon super RE.....\$249.99	Topcon V.....\$79.95	Pentax 28-80mm F3.5.....\$399.00	Pentax a10.....\$69.99
Voigtlander Bessa.....\$129.99	Yashica FX3.....\$69.99	Pentax 55-200mm F4.....\$44.00	Nikon F100.....\$699.00
Voigtlander Bessamatic.....\$129.99	Yashica FR1.....\$69.95	Sigma 70mm F2.8.....\$379.00	Olympus IS.....\$79.99
Zeiss Contax.....\$299.99	Zeiss Ikon.....\$149.99	Sony 16-80mm F3.5.....\$99.00	Minolta FV.....\$99.99
Canon SD.....\$99.00	Canon 35T.....\$169.50	Sony 55-200mm F4.....\$99.00	Pentax P21.....\$109.99
Canon 40D.....\$299.00	Nikon FM 3A.....\$399.00	Vivitar 28-80mm F8.....\$69.00	Contax Iai.....\$399.00
Contax Axi.....\$299.95	Nikon D.....\$299.00	Vivitar 283 Flash.....\$29.95	Nikon.....\$249.99
Exakta 66.....\$99.99	Nikon D200.....\$699.00	2X Teleconverter Extended Lens.....\$29.95	Nikon 35T.....\$299.50
Leica M6.....\$999.99	Olympus E-520.....\$249.00	3X Teleconverter Extended Lens.....\$49.95	Nikon 28T.....\$499.50

BINOCULARS, TELESCOPES, RIFLESCOPES, RANGEFINDERS

We offer one of the largest selections of BINOCULARS, TELESCOPES, RANGEFINDERS and RIFLESCOPES at LOW DISCOUNT PRICES!! We also offer you more than 500 DIFFERENT BINOCULARS!!!!!!

BUSHNELL, BAUSCH & LOMB, CAMBRON, CANON, CARSON, CELESTRON, DOCTER, FUJI, FUJINON, JASON, KOWA, LEITZ, LEICA, LEOPOLD, MEOPTA, MINOLTA, MINOX, OLYMPUS, PENTAX, SAMSUNG, IMPALDING, STEINER, SWIFT, TASCOS, VANGUARD, VIVITAR, VIXEN, VORTEX, WEENS & PLATH, ZEISS.

FOR YOUR SPECIAL PRICE CALL
email: Sales@CambridgeWorld.com



© Mark Toal

Mark Toal shot this aerial image with a Panasonic Lumix GM5 and an Olympus 9mm body cap lens mounted to a DJI FC40 Quadcopter that was 50 feet in the air. Exposure was 1/640 second at f/8 and ISO 200. He used the GM5's built-in Wi-Fi to capture the image, triggering it with his iPhone.

UP, UP AND AWAY!

OUR FAVORITE MINI COPTERS, UAVS, AND DRONES FOR AERIAL PHOTOGRAPHY

By Joe Farace

THE FEDERAL AVIATION ADMINISTRATION (FAA) officially refers to quadcopters as Unmanned Aerial Vehicles (UAV) but they obviously have more in common with the kind of hobbyist's radio-controlled aircraft that have been around since I was a member of the Poly Aeroneers in high school. Yet tech blogs and social media endlessly refer to quadcopters as "drones" when the only thing a General Atomics MQ-1 Predator and a DJI Phantom 1 have in common is that they're capable of flight. But they're not without some controversy.

Following the much publicized quadcopter crash on the White House lawn, a website and database was launched called NoFlyZone.org. To prevent quadcopters from flying over their property, homeowners can enter their addresses. It's voluntary for companies to agree to these no-fly zone requests and (as I go to deadline) seven companies have agreed to incorporate the data into their products, including Ehang, Horizon Hobby, DroneDeploy, Hexo+, PixiePath, RCFlyMaps, and Yuneec.

The FAA seems confused about the difference between commercial and private use of quadcopters. As I was finishing this column they were harassing a hobbyist for posting flight videos on YouTube. Because Google loves to shove ads down everybody's throats, their ads on

his YouTube video, in the FAA's view, made the quadcopter videos "commercial use" even though he did not place the ads.

And seemingly in answer to the question, "this is why we can't have nice things," some idiot decided to get his drone in the way of commercial aircraft by flying higher than the FAA's (proposed) maximum 500-foot altitude, interfering with a Southwest passenger jet attempting to land. The pilot of the jet reported "...there was just one of those radio-controlled helicopter things that went right over the top of us at 4,000." If the hammer gets dropped on quadcopter pilots, this will be one of the reasons.

Hopefully, this will all get straightened out eventually and photographers who want to fly UAVs for aerial imaging will be able to do so legally. To that end, here

are my choices for the best drones (or whatever you want to call them) out there.

4K IN THE AIR

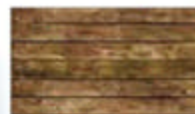
It's no surprise that with all the hoopla surrounding 4K video that it didn't take long to put these types of high-resolution cameras in the air. DJI's Inspire 1 (\$2,899) was the first flying 4K camera and includes a built-in wireless video transmitter as well as indoor stabilization without GPS. Wind is always a challenge when flying quadcopters and Inspire 1's three-axis gimbal (a pivoted support that allows rotation of an object around an axis) maintains stability even in strong winds. The camera comes with an app that runs on iOS and Android devices, broadcasting 1080p video at a distance of one mile. The quadcopter's dynamic home point function lets you know where it is and returns it safely. During flight, the platform stabilizes itself with a downward facing Optical Flow camera that uses a stereoscopic image of the ground to ensure it won't drift. The DJI Inspire 1's battery provides 18 minutes of flight time but having a backup is a good idea (see "Quadcopter Flying Tips").

Product shots courtesy of the respective companies.



PRINTED BACKGROUND PAPER ROLLS

PAPER IS CORE WOUND FOR EASY HANGING
VIBRANT PATTERNS & REALISTIC TEXTURES
CONVENIENT 53" X 18' SIZE (1.35M X 5.5M)



WORN PLANKS
#P-PA5318WRN



WHITEWASH
#P-PA5318WHW



GRAY PINE
#P-PA5318GRP



PALE WASHED WOOD
#P-PA5318PWW



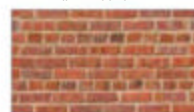
VINTAGE FLORAL
#P-PA5318VFL



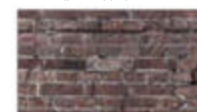
WEATHERED BRICK
#P-PA5318WBR



WHITE BRICK
#P-PA5318WTB



RED BRICK
#P-PA5318RBR



GRUNGE BRICK
#P-PA5318GBR



FLOATING HEARTS
#P-PA5318FLH



ROSY POLKA DOTS
#P-PA5318RPO



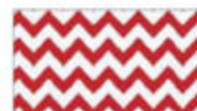
AQUA POLKA DOTS
#P-PA5318APO



RAINBOW SPRINKLE
#P-PA5318RSP



PARTY BANNERS
#P-PA5318PBA



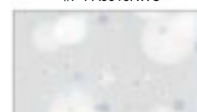
RED & WHITE CHEVRON
#P-PA5318RWC



GRAY & WHITE CHEVRON
#P-PA5318GWC



DEEP BLUE HAZE
#P-PA5318BH2



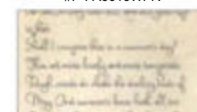
WINTER FROST
#P-PA5318WFR



GRAY FLORAL
#P-PA5318GFL



CONGRATULATIONS
#P-PA5318CON



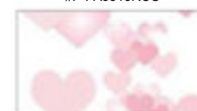
ROMANTIC SCRIPT
#P-PA5318ROS



IVORY GLOW
#P-PA5318IVG



CELEBRATION LIGHTS
#P-PA5318CBL



LOVE BURST
#P-PA5318LOB

Printed with state-of-the-art high definition printers; producing unique, realistic backgrounds that photograph beautifully, Savage Printed Background Paper Rolls brings versatility and elegance to your studio sessions, celebrations, photo booths & more.



At the other end of the quadcopter spectrum there's Swann's QuadForce Video Drone (\$89). It's a radio-controlled toy—that's what they call it—that uses the latest 2.4GHz frequency for a strong signal indoors or outdoors up to 330 feet. It has an on-board video camera mounted in the undercarriage recording (720p resolution) videos or stills of your flights onto a microSD card, which seems like the de facto standard recording media for quadcopters. It's easy to get started flying the QuadForce: Install four alkaline AA batteries in the remote control, then charge the chopper's batteries using the provided USB cable for (up to) 50 minutes. Once charged, you're up, up and away for eight minutes flying time.

Ehang's GHOST Aerial (\$729) comes with a gimbal that (they say) fits all versions of the GoPro and similar cameras and includes an auto-leveling function to ensure smooth, stabilized images. You fly it with your smartphone using one-click commands. The app is compatible with



all Android devices—an iOS version is promised real soon now. The quadcopter has a Night mode with illuminated LED lights that will let you track the GHOST Aerial in the sky and just plain look cool when flying. Flight time is an impressive 30 minutes or 20 minutes with the gimbal and GoPro attached.

3D Robotics' IRIS+ (\$750) has an autopilot that will automatically fly itself where you tell it to go, while keeping the on-board camera steady with its two-axis gimbal stabilization. You can fly



it manually using the controller or use its "Follow Me" mode that will follow any GPS-enabled Android device. The company's tablet-based software should make flight planning easy. Fully loaded (eight-pound capacity), the power system delivers 16 minutes of flight time. The IRIS+ includes a high-capacity flight battery, battery charger, ground station radio, and remote control. It has a GoPro-compatible camera mount and includes a tool kit along with an operation manual with flight checklist.

expodisc™ 2.0

Professional White Balance Filter

Save time editing photos & video

- ▶ Set custom white balance
- ▶ Meter 18% incident exposure
- ▶ 77mm, 82mm - \$49.95

ExpoDisc

AWB



Images © Zach & Jody, 2014 • zachandjody.com

Winner 2014

ExpoDisc 2.0, Best Product
Color Management System Category



expodisc.com



WHAT DO YOU DO?

**Your hard drive crashed.
Your images are gone.
Your client is upset.**

If you're a PPA photographer—don't sweat it! PPA will protect you when data loss occurs and a client threatens legal action.

It's part of the membership! And if you file a claim, we won't raise your rates or drop your coverage. PPA has your

Be More Protected

PPA.com/Trust
or 800.786.6277



PROFESSIONAL PHOTOGRAPHERS OF AMERICA

TOOLS / GEARED UP



SIX-BLADED COPTERS

You can't call the Hexo+ (\$1,299) a quadcopter because it has six blades. (As I was completing this column, it was available for preorder; "final product shipping September 2015.") It's supposed to be simple to fly because you set the framing on your smartphone and the Hexo+ does the rest from takeoff to landing. The Hexo+ has a 3D gimbal with a GoPro Mount—you need to add your own camera. One of Hexo+'s unique features is its ability for completely autonomous flight that tracks you and makes sure you're in the shot. You can choose to capture yourself in action from any angle—front, back, side, above, and anywhere in between. Is this the ultimate video selfie?

Walkera's TALI H500 Hexacopter (\$1,899) is another six-bladed copter that gives it more power than comparable quad-rotor configurations, making it more than capable even under the combined weight of a three-axis gimbal with GoPro attached. You can choose from several flight modes, including GPS assistance for beginners to manual control for better maneuverability. The integrated GPS means you can take advantage of features such as Intelligent Orientation Control (IOC) and fail-safe "return home." It uses a 5400mAh LiPo flight battery for up to 25 minutes flying time. The battery slots into the aircraft's tail and features LED indicators to check remaining capacity. The transmitter features a five-inch color display for live feed viewing from the camera as well as telemetry data, including battery voltage, GPS data, and temperature.



Adorama exclusively offers the Aries Blackbird X10 quadcopter (\$699) with built-in 16-megapixel camera. By attaching a smartphone to the transmitter, you can monitor flight in real time and direct the camera how to frame the subject. The quadcopter has a six-axis gyro, weather-protected construction, and stable landing base. The Blackbird X10 can record at altitudes of up to 1,640 feet (reminder: proposed FAA maximum limit is 500 feet) for up to 25 minutes of flying time. The 120-degree f/2.8 wide-angle lens automatically tilts during flight, keeping the lens pointed at the same height relative to the horizon. The camera supports single and continuous shooting modes, with video capture resolutions up to 1080p/30 fps video recorded onto a microSD/SDHC card. When flight controls are released or there's loss of control, the quadcopter automatically hovers, using GPS guidance to maintain position and height, regardless of wind. If it strays beyond transmission range, Failsafe mode automatically returns the Blackbird to a safe height and lands it safely.



Dromida offers entry-level (cameraless) quadcopters for less than \$60 but if you want to make pictures, you'll need to look at something like their Ominus FPV (\$199) that has a 720p FPV (First Person View) camera recording onto the inevitable microSD card. You not only see your flight through a Wi-Fi-enabled digital camera but also can operate it using your smartphone or other mobile device using the free FPVCam app that's downloadable from Google Play or Apple's App Store. The Ominus FPV includes a transmitter and AA batteries, LiPo battery (for up to 12 minutes flying time) and USB charger, microSD card, and—you'll need 'em—spare propellers.





Unaware?

Americas Regional Winner 2014

Asia Pacific Regional Winner 2014

Unaware?



What does Urban mean to you?

Urban has many meanings, depending on your point of view. CBRE challenges you to capture it in photos. Submit your photos for a chance to win a photography trip of a lifetime, among other prizes. **Enter the competition at www.cbreupoty.com.**

CBRE



SAVE \$600+

on Credit Card Transaction Fees!

- ✓ Interchange + crazy-low
0.07% rate
- ✓ No pesky **setup fee**
- ✓ Only **7¢** per transaction!
- ✓ **No monthly fee**
(mobile fee \$9⁹⁵/month)

PPA photographers are
already saving \$600+ a
year on transaction fees!
You could too!

Be More Profitable

PPA.com/LowRates
or 800.786.6277



PROFESSIONAL PHOTOGRAPHERS OF AMERICA

TOOLS / GEARED UP



Blade's 180 QX HD costs \$189 with a camera. At this price point you won't be surprised to learn that the camera is only 1.3 megapixels and shoots 720p HD video. It has a storage port for two microSD memory cards and for the money makes a good starter quadcopter. The camera has a Stability mode (high- or low-angle selectable) where the 180 QX HD operates with bank limiting and self-leveling characteristics. Two Stability modes provide the pilot with a high- and low-angle setting, allowing the quadcopter to be flown smoothly or aggressively (resist the urge) depending on your video needs and style. *Tip:* Remember to fly responsibly.

Hubsan's H109S X4 Pro Quadcopter (\$1,299) uses a GPS-based flight control system and includes a transmitter with a FPV screen. The quadcopter features autopilot flying with waypoint navigation. The X4 Pro not only features Automatic Return to Home but has a built-in parachute for emergencies. The

quadcopter includes removable prop guards for protection for those inevitable... you know.

SMALL DRONES

The Estes Proto-X FPV affordable (\$229) microcopter comes with a 1280x720p camera that shoots videos that you can watch in real time (with a range of 240 feet) on the controller's 4.5-inch screen, which also comes with a hood for outdoor viewing. A three-axis gyro and three accelerometers create stable flight for such a small—distance between motors is 4.5 inches; 2.2-inch blade—bird, which has seven LED lights to make it easy to spot when flying at dusk or sunrise. The Proto-X FPV comes assembled with a LiPo battery and USB charger. Just install four AA batteries in the transmitter and start flying.

The Parrot Bebop Drone Quadcopter with Skycontroller (\$899) has an ABS reinforced structure weighing 14 ounces and in the event of collision its propellers automatically stop. A Return Home function brings the Bebop back to its takeoff point and an emergency mode lets the quadcopter land right away. The 14-megapixel fisheye (180-degree field of view) camera is stabilized on three axes. Using Parrot's Skycontroller, a piloting smartphone or tablet is fixed on a shelf that's compatible with most smart devices.



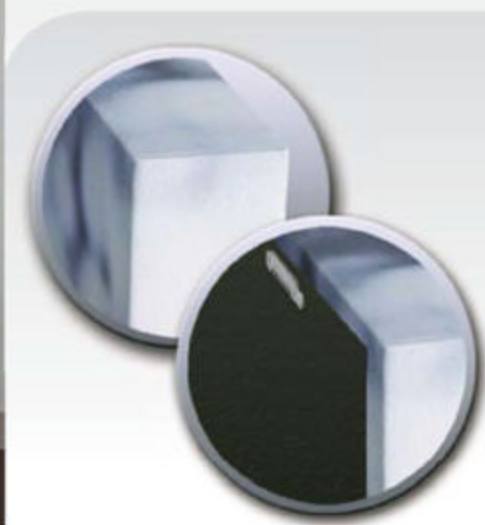
WHOLESALE CANVAS GALLERY WRAPS



PRICES AS LOW AS

\$10.99

- Stretched on 1.5" bars
- Perfect corners
- High quality printing and materials
- Arrives ready to hang



No minimum order required.

3 day turnaround.

Free 16x20 with first purchase.

Use code: SBUG810

personalized
photogifts
by denny mfg 

1.800.844.5616 ext. 714

www.photonovelty.com



\$15,000 OF FREE COVERAGE!

✓ \$15,000 of camera and equipment insurance

✓ Loss due to fire or theft

✓ Equipment breakage

✓ Worldwide coverage

✓ On-Location coverage

Be More Protected

PPA.com/PhotoCare
or 800.786.6277

PHOTO
CARE

PPA

PROFESSIONAL PHOTOGRAPHERS OF AMERICA

TOOLS / GEARED UP



Yuneec's Q500 Typhoon (\$1,299) quadcopter includes a 12-megapixel, 1080p/60 fps camera, three-axis gimbal, ST10 personal ground station, two batteries (nice touch), charger, and an 8GB microSD card. In addition, there are a number of accessories available, including a sunshade, car charger, USB adapter/charger, and an extra set of rotors. The ST10 ground station is a 10-channel 2.4GHz RC transmitter that supports a 5.8GHz video downlink that delivers streaming video via an Android mobile device with a 4.5-inch touchscreen, allowing you to view an FPV video image

from the camera along with superimposed telemetry data.

XProHeli's XPX Heavy Lift Quadcopter (\$1,899) has been designed for use with sub-900 gram (31.7 ounce) mirrorless cameras like the Sony NEX-5 or the Panasonic GH4. XPX is designed to fly with the Silk three-axis gimbal, it uses a high efficiency (22.2v) power distribution system, powering four 340kv motors with 14x5.5-inch multirotor props, providing flight times from nine to 30 minutes depending on camera/gimbal payload. The transmitter is a full 5.8GHz FPV system with monitor. ■

Acknowledgements: I want to thank my friend Mark Toal and his friend Dave Richardson for their hands-on insights on the world of quadcopter photography. Mark writes a series of posts called "Quadcopter Diary" for the MirrorlessPhotoTips.com blog.

Joe Farace invites readers to visit his blogs, including *Saving the World, One Pixel at a Time* (www.joefaraceblogs.com) and *Mirrorless Photo Tips* (www.mirrorlessphototips.com), to read new how-to posts Monday through Friday.

QUADCOPTER FLYING TIPS

Flying a quadcopter may seem easy but as Señor Wences once famously said, "Is easy for you, is difficult for me." Here are a few tips and recommended accessories to help with your first flights:

- Find a large field that doesn't have too many trees. It's easy to get your quadcopter tangled on tree branches and you don't want to have to rescue it from a kite (and quadcopter) eating tree. Similarly, avoid hard-paved areas and buildings. If you crash, you want it to be as soft as possible. Buy a set of rotor guards for when you do tangle with a tree.
- Get an extra battery or two. Battery life on smaller, less expensive quadcopters can be as short as 10 minutes. (Author's Note: I tried to get flight times for all the quadcopters featured but that information was not always available.) When the battery is low and you have a light camera on board the quadcopter will stop rising and slowly start to come down. If you have a heavier camera on board, flight time is reduced and it comes down much faster.
- Just as with a real aircraft use a pre-flight checklist before taking off for the wild blue yonder. There are many checklists available on the web, some designed just for your quadcopter. MultiRotorUSA (www.multirotorusa.com) has one you can download to get started.
- Repeat after me: You will crash your quadcopter. You will crash your quadcopter. Many quadcopters have a built-in GPS and easy-to-use controls and may seem deceptively easy to fly but even a slight breeze can make a quadcopter drift so you have to constantly correct its flight direction. After some experience in an open field, this isn't difficult to master.
- Be prepared to get addicted. It's that much fun.

YTL - Silk Road Series NEW



This whole new lever lock professional tripod series includes YTL 92/92 classic series and YTL 93/93 3-way series. They feature Y-Tube columns for super compact design, saving 30% space compared to regular tripods. All series features leg angle adjusters for 3 legs spread angles that allows setting each leg at different positions individually. With patented Quick Easy Lever locking (QEL) system, it lets you extend or shorten a leg without taking your eyes off your subject.



Silk Road Tripod series won 2013 TIPA Best Design Award and 2014 IF Product Design Award



PATENTED
Improved design with Y-Tube column is more compact.



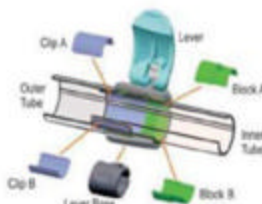
Graduated Markings

It has graduated markings on the lowest leg sections to aid in setting up the legs at less than full extension.



Quick Lever Lock

This series features quick flip lever leg locks, lift lever to unlock or push lever to lock, it's easy even when wearing gloves.



PATENTED
Quick Easy Lever Locking System



YTL 92/92 Tripods



YTL 93/93 Tripods



8 Layer 100% Carbon Tube
8X multi-layer technology carbon tube features high density and lightweight.

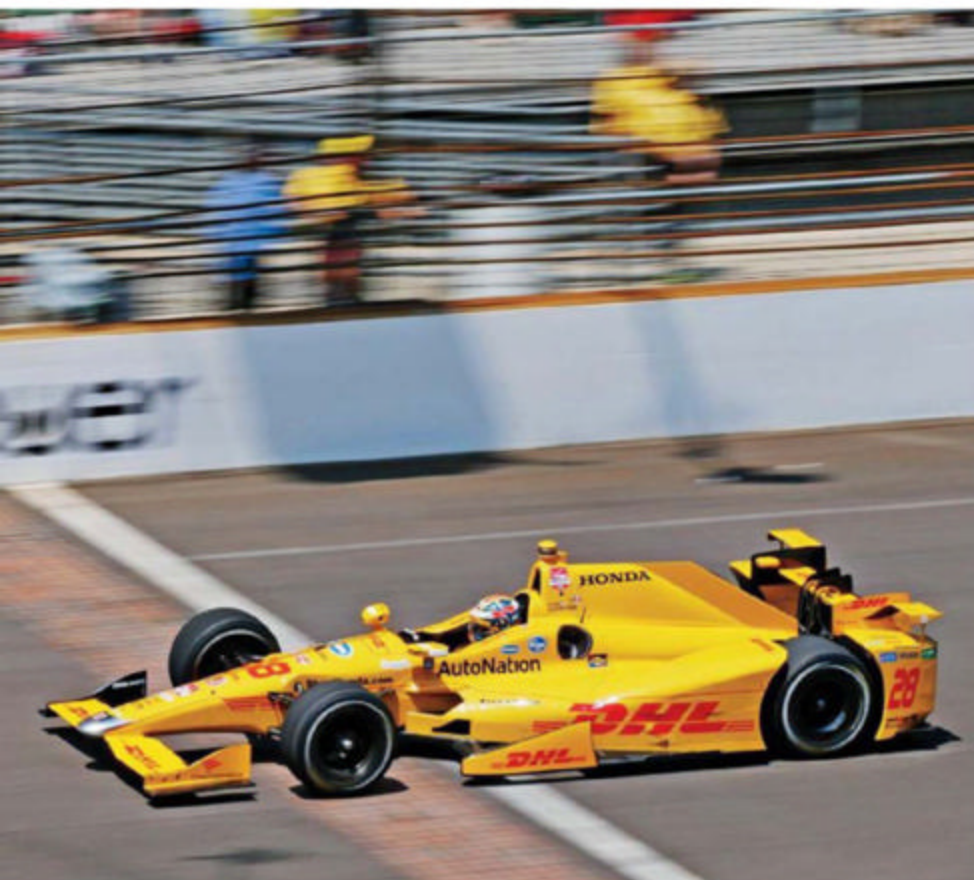


YTL series compare with regular tripods
Its innovative ideas with brilliant compact designs take advantage of every inch of available space.



PANASONIC LUMIX DMC-G7

WE TAKE PANASONIC'S SPEEDY, 4K-SHOOTING, MIRRORLESS CAMERA FOR A SPIN AT THE INDY 500 *By Dan Havlik*



THERE ARE FEW THINGS that can get a man's heart pumping like a new camera and a legendary car race to test it out at. Or at least that's how I felt when I got a chance to take the Panasonic Lumix DMC-G7 for a spin at the Indianapolis 500 in May.

On face value, the Panasonic G7 might not seem like an ideal camera to capture racecars zooming around a massive oval track at over 200 miles per hour. But after spending the long Memorial Day weekend with the G7 while shooting the Indy 500 race (and the events surrounding it), I found that this little mirrorless model has a lot going for it as a sports/action camera.

The Panasonic G7 uses a 16-megapixel Digital Live MOS sensor in the Micro Four Thirds format and can shoot 4K video. The G7 is also the latest Panasonic camera with 4K Photo, a feature that allows you to extract 4K-sized (approximately 8MP) still images from the 4K video.

The G7 went on sale in June in three configurations. There's a black version and a pewter/gun metal version that come with a 14-42mm kit lens; both sell for \$799. There's also a black version with a 14-140mm kit lens that goes for \$1,099.

At the Indy 500, I shot with a black version of the camera, using both the Lumix G Vario 14-42mm f/3.5-5.6 II ASPH. MEGA O.I.S. kit lens to shoot scene setters before the race, and the Lumix G Vario 100-300mm f/4.0-5.6 MEGA O.I.S. lens (\$599) when the cars got rolling on the speedway. Here's what I thought.

BUILD

The Panasonic G7 is a portable, relatively compact camera, weighing in at just under a pound (body only with SD card and lithium-ion rechargeable battery installed) in a sleek though not highly distinctive design. It looks a bit different from its predecessor, with an angled, retro-style camera body. (The G6 featured more rounded contours.) There's a new drive mode dial on the G7 for the 4K video features, along with front and rear dials for the G7's other imaging functions.

The G7's handgrip is larger and more ergonomically designed from the previous model but, for anyone with large hands (such as yours truly), it will still feel a bit dainty. My bottom two fingers hung off the end of the grip and I'd recommend using the included shoulder strap or attaching a wrist strap for better security.

There's also a three-inch, flip-out rotating rear display with 1,040K-dot high resolution that offers approximately 100 percent field of view. The new screen boosts the maximum luminance by

The Panasonic G7's revamped algorithm for AF Tracking helped me lock in on this racecar while I panned at a slower than normal shutter speed to create a motion effect for the wheels and background while the chassis stayed sharp.

XP PhotoGear

Specializing in Speedlight Modifiers

SpeedStand

XPAPVSS



XPDP70
XPDP70Kit



XPDP60
XPDP60Kit



XPDP55
XPDP55Kit



SpeedBox Kits

Studio Quality Light
Fastest ~ Easy to Set Up



XPDP47
XPDP47Kit

Cast Aluminum
Auto Legs
Metal Clips

The **SpeedBox Kits** are New Lighting Kits by XP PhotoGear.
Any of these flash modifiers can now include our 8' **SpeedStand**
which has an optional automatic open and close function.

PCD Microbox Kit

XPSSPCJ



Largest Microbox

Double Layered Diffusion

10"x13.9"



XPFPJ-01



Circular
Mask



Strip
Mask



XPAPVSS

SpeedStand

The PCD Microbox (XP9004103)
is now available as a Kit and includes
the XPFPJ-01 Adjustable Umbrella Bracket
and the XPAPVSS SpeedStand

Also new by XP PhotoGear...

Izzuz Camera Straps



Quick Release Buckles
Change out straps easily
For DSLR camera with lens
56" Long, 2" Wide
Over 30 different designs
Made in the USA

www.xpphotogear.com

more than 50 percent compared with its predecessor, giving the G7's display better visibility even when shooting outdoors in sunny conditions. I found the display to be a fantastic resource that helped me frame shots while shooting over crowds in the bright sun during the race.

PERFORMANCE

The Panasonic Lumix G7 is surprisingly fast for a mid-tier mirrorless camera. The G7 is powered by the same revamped Venus Engine processor that's in the GH4 model, and features a "quick response" Contrast AF (Autofocus) system with DFD (Depth From Defocus) technology, which is also in the GH4. According to Panasonic, DFD calculates the distance to the subject you are capturing by "evaluating two images with different sharpness levels while consulting the data of optical characteristics of the current lens at that moment."

That's a confusing description but the result is the Panasonic G7 is even a faster focuser than the GH4 with an AF lock speed of approximately 0.07 seconds. I found the G7's focusing was as quick as many professional DSLRs from Canon and Nikon I've tried with virtually no shutter lag. The G7's burst speed is also significantly faster compared to its predecessor, with the ability to shoot at 8 frames per second, and 6 fps with continuous autofocus. There's a Low Light AF mode that allows you to lock in focus with an AF assist lamp in extreme low-light situations down to -4 EV, which is as dark as moonlight. (This came in handy while shooting photos of the cars in their dark garages before the race.)

One of the best yet trickiest ways to shoot racecars is by setting a slightly slower shutter speed and then panning and shooting as the cars zip by. When done right, this will produce an image with the car's frame tack sharp but the wheels and background blurry to suggest motion. Getting good pans at Indy was tricky, especially since we were shooting relatively far away from the track, up on one of the terraces of the Panasonic Pagoda. But the Panasonic G7's revamped algorithm for AF Tracking, which lets the camera lock in on the subject more securely, was a big help. After much trial and error, I was able to get a few good motion shots of the 600-horsepower cars roaring by.

4K VIDEO/PHOTO SHOOTING

Perhaps the most intriguing feature of the Panasonic Lumix G7 is its 4K Video/



The G7's Low Light AF mode lets you lock in focus with an AF assist lamp in extreme low-light situations down to -4 EV. While I didn't need it here, the dark garage and bright, reflective shine of the car posed all sorts of focusing issues, which the G7 handled like a champ.



The G7's portability and its handy three-inch, flip-out rotating rear display helped me get great shots of the Indy cars being wheeled out of the garages before the race.



Because the Panasonic G7 is aimed, primarily, at consumers and enthusiasts, the camera defaults to a colorful, saturated look. In this photo of a group of effervescent race girls, the effect worked well.

Photo mode. For starters, the G7 can shoot 4K video in 3840x2160 at 30p or 24p in MP4, along with the Full HD 1920x1080 60p video in AVCHD Progressive or MP4 (MPEG-4/H.264) format with full-time AF. If you've never shot 4K, you'll



Four-time Indy 500 winner and living legend A.J. Foyt dodges an autograph hound as he leaves the Foyt Racing garage. The G7's fast burst rate speed helped me play paparazzi to get this shot of Foyt just before he hopped on a golf cart and was whisked off to the race.

be impressed with how much detail the G7 can capture in its videos though, to be honest, I don't see a dramatic visual difference from 1080p HD. (The leap from standard definition to HD was much more of a game changer.)

PRESENTATION IS EVERYTHING



PRINT PRESENTATION



DIGITAL PRESENTATION



CUSTOM FLUSHMOUNT



SLIP IN



MIDWEST PHOTOGRAPHIC.com
RESOURCE CENTER

1-800-932-5286

Like Us On
facebook



What are you looking for?

Chances are we have it in stock at the lowest price!

www.midwestphotographic.com

1-636-970-0540

New



Background Systems
& Props



Wood Album and
Keepsake Boxes



MIDWEST PHOTOGRAPHIC
RESOURCE CENTER



Digital Display Box



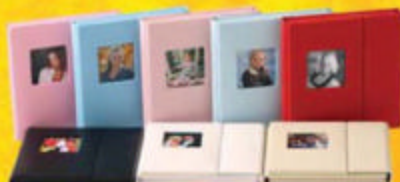
Acrylic Lid
Photo Boxes



Designer Canvas
Camera Bag



Custom Imprinting
on Boxes and Covers



1, 2, 3 and 6 DVD holders



COTTON CARRIER
CARRY YOUR GEAR



Just before the start of the race, the pits were noisy and crowded, which was ideal for a small and relatively inconspicuous camera like the G7. I was able to quickly snap this photo and move on to the next pit.



A vintage Indy racecar once driven by the great Al Unser. The G7 has some issues dealing with the bright orange and white decals of the car, causing the background to be slightly underexposed.



The Panasonic G7 uses a Micro Four Thirds sensor, which magnifies the lens focal length by approximately 2x. This turned my 100-300mm lens into a 200-600mm equivalent, allowing me to capture a shot of Tony Kanaan's wrecked car being taken away. Kanaan, fortunately, was unhurt in the accident.

Panasonic's 4K Photo feature, however, has the potential to be a game changer.

Just turn the mode dial to the 4K setting, and you have the ability to extract a single image from anywhere in your Ultra HD

footage during playback and use it as a printable, 8MP still photo. And because you're shooting at 30 fps, you should, theoretically, be able to "never miss a moment" with your images, as Panasonic

NEW

Moab's 21st Century Darkroom Paper

juniper BARYTA RAG 305

MOAB
BY LEGION PAPER

moabpaper.com

We Want Your Used Gear

Trade up for the latest and greatest

The B&H Used Department is seeking to buy your used equipment. Our process is easy and the most convenient one for you. B&H has been a trusted source for equipment and dedicated service for over forty years. When we quote you a price, that's the price we pay.*



Online Quote

Receive an online quote 24/7 at BandH.com/Used



Prompt payment

We pay top dollar, whether you choose cash or B&H Credit



Our process is easy

Most items evaluated within three business days from when we receive it



Shipping is on B&H

The cost of shipping is on us, we will send you a pre-paid UPS shipping label



420 Ninth Ave, NYC
Visit Our SuperStore

888-520-3010
Speak to a Sales Associate

BandH.com/used
Buy and sell online

* Prices quoted are based on item condition, age, and specifications and are valid for 14 days. B&H reserves the right to revise or withdraw quotes if, upon inspection, item condition is found to be inconsistent with the descriptions provided by customers. Offers are subject to change. B&H may limit the quantity of items to be traded. Customers must be 18 years old. A government-issued ID is required. Not responsible for typographical or illustrative errors. © 2015 B&H Foto & Electronics Corp.



The Professional's Source®

TOOLS / FIELD REVIEW

likes to put it. For the most part, this was an ideal feature for shooting the Indy 500, allowing for massive 30 fps bursts of the passing cars without having to wait for the buffer to clear.

Then just scroll through the 4K footage with your finger on the G7's touchscreen during playback, tap the image of the car (or athlete, pet, toddler, etc.) you want, and it's saved as a picture in the MP4 format. There's also a 4K Burst S/S (Start/Stop) mode designed for unpredictable photo subjects; and a 4K Pre-Burst mode, with recording starting approximately one second before and after the shutter button is pressed. All three 4K Photo modes allow you to save 8MP images in a variety of aspect ratios: 3840x2160 (16:9), 3328x2496 (4:3), 3504x2336 (3:2), and 2880x2880 (1:1).

On the downside, the image quality of the still photos has something to be desired. In particular, since you're using the video mode to capture the footage while panning, still shots are susceptible to the infamous rolling shutter movie effect, which unnaturally elongates subjects. The unfortunate result were racecars that sometimes looked oddly stretched, like futuristic spacecraft.



The pre-race build-up was filled with all types of pageantry, including this parade of bagpipers. The G7's 14-42mm kit lens did a great job keeping the faces of the pipers tack sharp despite how quickly this group passed through.

CONCLUSION

The Panasonic Lumix G7 really surprised me. While it seemed like it would be overmatched by the power and speed of the Indy cars, the camera did a great job keeping up with the action and I was able to come away with quite a few keepers from the race. The G7 was also supremely portable and adaptable, allowing me to ably capture shots in a variety of shooting situations: over big crowds; in dark, hazy garages; and right in the pits amidst all



The G7's black-and-white mode helped me capture this still life of a pile of iconic Firestone tires.

the madness of the Indy 500. If its image quality wasn't always as top-notch as I would've liked—particularly in low light at high ISOs and in its 4K photos which showed the effects of rolling shutter—the G7 proved to be a solid, mid-level mirrorless camera with plenty of tricks up its sleeve for capturing fast action. ■

platypod pro™

"the world's most compact base for a professional tripod head"



www.platypodpro.com

מכירת
מצלמות



CLASSIC CONNECTION

F I N E C A M E R A S

SAM SHOSHAN Collecting · Trading · Selling

Leica HASSELBLAD Mamiya Canon Nikon



888-LEICASAM (534-2272)
203-371-2352 / 2353
Toll-Free Fax: 866-639-1542
Fax: 203-880-1521
2400 Black Rock Turnpike
suite 420
Fairfield CT 06825
(by appointment only)

Bank Check
Money Order



www.classicconnection.com email: sam@classicconnection.com



M-A black & silver (analog) \$4750
M-P (type 240) silver & chrome \$7950
M black or silver 24MP \$7250
Leica M Monochrom B&W camera \$7,950
M-E Anthracite Gray 18MP New \$5450
50/0,95mm Noctilux Silver Cat#11667 \$11,350
35/1,4mm Summilux Silver Cat#11675 \$5450

35/50/75/90mm f2.4 Summarit lenses black or silver
S (type 007) 37.5MP CMOS (4/2015) \$25,400
S-E (type 006) 37.5MP \$16,900
24/2.5 Super-Elmar-S Asph. lens New \$8950
30-90/3.5-5.6 Vario-Elmar S Asph. lens New \$10,900
120/5.6 TS-Apo-Elmar-S Asph. New \$7350
Elpro-S for 180mm lens #16032 New \$1450

X (type 113) w.23/1,7mm 16.2MP \$2295
X-E (type 102) w.24/2,8mm 16.2MP \$1795
X Vario w.28-70mm lens 16.1MP
LEICA X2 w.24mm lens 16.1MP \$1,995
D-Lux (type 109) w.24-75/1,7-2.8mm 12MP \$1195
D-Lux 6 w.24-90mm lens 10.1MP \$799
V-Lux (type 114) w.25-400mm 20MP \$1350

WE BUY AND SELL WATCHES!
DAYTONA WANTED !!!
CALL SAM 1-888-LEICASAM
(534-2272)



Leica Consumer Promotion:
12% Savings was Extended (End of June)!

Purchase most Leica Photographic Products* at 12% off the selling price. The current exchange rate between the US Dollar and the Euro enables Leica Camera to offer this very unique promotion to all Leica consumers in North America. Please call: 1-888-534-2272 for more info & your saving offer!

M CAMERAS

12% discount for most New M lenses! Call now
M Type 240 New \$7250 less 12% discount = \$6380
M Type 240 M-/LN \$5599/5995
New Monochrome type 246 New USA \$7450
Monochrome New \$7950 less 12% discount = \$6996
Monochrome Ex+ \$6495/5999
MP Type 240 New \$7950 less 12% = \$6996
MP Type 240 LN/Ex+ \$6499/6199
MP type 240 safari set w.35mm Asph New \$9995
M4 New \$4750 less 12% discount = \$4180
M9P W.Box Less than 500 shots w.2yrs warranty M- \$4299
M9 black with grip Ex+/+ \$3199 / \$3499
M8 silver Ex+/+M- \$1699
M7 0.72 w.Box Mint- \$2299
M5 black Ex+/+ \$599 to \$999
M4-M with NY Motor M- Rare/Call
M4-P silver set 1913-1983 w.50/1,4mm Mint \$3099
M4 black paint Ex+/Mint \$3199/ \$4499
M4 silver Ex+/Mint- In stock
M3 / M2 chrome \$499 to \$1595
M2 black paint original & re paint. In stock
M2 chrome \$599 / \$1199
X (type 113) w.23/1,7mm 16.2MP New \$2295-12% = \$2019.60
X-E (type 102) w.24/2,8mm 16.2MP. \$1795-12% = \$1579.60
D-Lux (T.109) 12MP w.24-75mm \$1195-12% = \$1051
V-Lux (T.114) 20MP w.25-400mm \$1350-12% = \$1188
D-Lux-6 Mint/New \$695/799
Digilux1 / Digilux 2 \$195/395
V-Lux-20 \$599
D-Lux-2 / D-Lux-3 / D-Lux-4 / D-Lux-5 \$199/449
99 Years Leica a Company History Book NEW \$130
T Camera system In stock

Wanted \$\$\$\$ Original MP Blk or Chrome camera Wanted \$\$\$\$

Used M lenses Wanted high \$\$\$\$ paid

M LENSES

NEW 28/1,4 Summilux-M ASPH. #11668 \$5995
21/2,8 Elmarit-M Asph. w.VF Mint- \$2299
21/2,8 Elmarit-M w.VF six bit Mint- \$1699
28/2,8 Elmarit-M w.hood Ex+/+M- \$1099/1399
35/1,4 Summilux-M Asph. W.Box M- \$3499
35/1,4mm Summilux Silver New \$5450-12%=\$4796
35/50/75/90mm f2.4 Summarit lenses black or silver ... Call
35/2 Summicron-M Asph blk M-/LN- \$2399/2899
35/2 Summicron-M Ex+/Ex+ \$1399 / \$1749
35/2 Summicron-M x 2 Consecutive numbers M- Call
35/2,8 Summaron with hood Ex+/+ \$999/\$1199
35/2,4 Summarit-M Asph black New \$2250-12%=\$1980
35/3,5 Summaron Ex+/+ \$399/599
50/2,8 Elmar-M Col. W.hood Mint- \$849
50/0,95 Noctilux-M M-/Ex+ \$9499/\$8799
50/0,95mm Noctilux Silver Cat#11667 \$11,350
50/1,4 Summilux-M black Ex+/Mint- \$1799/\$2299
50/1,4 Summilux-M Asph. Silver LN \$3599
50/2 Apo Summicron-M Asph. LN- \$6769
50/2 Summicron Col. \$399/699
50/2 Summicron-M Ex+/M- \$1299/1599
50/2 Summicron-M Late Mint-/LN- \$1499/1699
50/2 Summicron silver Ex+/Ex+ \$799/1399
50/2,5 Summarit-M w.hood M- \$1379
50/4,5 Focotar black, marks Ex+ \$159
75/2 summicron-M asph. Mint- \$2799
75/2 & 75/1,4mm M lenses Wanted \$\$\$
75/2,5 Summarit-M L.New-/M- \$1799/\$1649
85/4 Tele Tessar 2M silver w.box M- \$699
90/2 Apo Summicron-M Asph. \$2799/3195
90/2 Summicron-M Late M- \$1499
90/2,5 Summarit-M L.New- \$1699
90/2,8mm Lenses In Stock. \$499 to \$899
90/2,5 Summarit-M w.hood M- \$1599
90/4 Elmar-C & Col. In stock. Call
135mm Lenses In Stock \$99 to \$599
135/3,4 Apo-M lens Ex+/M- \$2579/\$3199
135/2,8 Elmarit-M RF Ex+/M- \$499/799
135/4 Tele-Elmar-M with box, hood, card \$699
28-35-50/4 Tri-Elmar-M Asph. Wanted !!
M lenses wanted. Call: 1-888-534-2272 for big \$\$\$\$

SLR

R9 w.winder & 28-90mm Asph. Lens Mint- Call
R8 black or Silver Ex+/Mint \$499/\$799
R7 Ex+/M- \$449/595
R6 Ex+/Ex+ \$449/\$699
R3 / R4/R4s Ex+/+M- \$195/399
RE/R5/R6 \$399/599
21-35/3,5-4 Vario-Elmar-R ROM w.box M/LN- \$2499/2899
28-90/2,8-4,5 Vario-Elmarit-R ROM box M-/LN- \$5499/6299
24/2,8 Elmarit-R Ex+/+Mint- \$699/\$849
28/2,8 Elmarit-R Ex+/M- \$599/799
50/1,4 Summilux-R Ex+/+ \$1299/1499
90/2 Summicron-R M- \$799 /899
90/28 Elmarit-R w.Box Mint-/Ex+ Call
100/2,8 Apo Elmarit with 1:1adapt. and sta1 Ex+ Call
135/2,8 Elmarit-R \$139/399

180/2,8 Elmarit-R \$499/999
180/4 Elmar-R w.box Ex+ Call
250/4 Telyt-R Ex+/+M- \$599 / 799
400/6,8 Telyt Ex+/+M- \$699/799
500/8 MR lens w.case, filters \$899
35-70/3,5 Vario-Elmar-R E67 German Ex+ \$899
75-200mm & 80-200 \$399/399
70-210/4 Vario-Elmar-R E60 M- \$599
1,4X Apo, 2x Apo & 2x extenders \$799/899
Wanted: 15mm / 35/1,4 / 50/1,4-Rom / 90/2 Apo / 100 Apo / 180/2 Apo / 180/2,8 Apo & 280 Apo / 70-80

S SYSTEM

Leica S (Typ 006) 37.5 MP digital New \$21,950
Ask about \$5000 S trade up rebate program!
S-E (type 006) 37.5MP \$16,900
S (type 007) 37.5MP CMOS (4/2015) \$25,400
Leica Vario-Elmar-S 30-90/3,5-5,6 ASPH New \$11,750
Leica S lenses: 30, 35, 45, 70, 120, 180 mm. Call
Call for more S system info / attractive trade in prices

SCREW MOUNT

Leica Copies/Canon SM cameras & lenses in stock. Call
IA/ Ig/ Ic / If / Std blk / Ilc / Ilif / Illa / Ilb / Il / Ill / Illa / 28mm / 35/2,5 Nikkor / 35/2,8 Biogon / 35/3,5 Summaron or Elmar / 50/1,5 Xenon / 50/1,5 Sonnar / 50/2 Summitar / 50/2 Summicron / 50/2,5 Hektor / 50/3,5 Volestigmat / 85/2 Sonnar / 82/2 Nikkor / 85mm / 90/2 Summicron / 90/2,8 Elmarit / 90/4 Elmar / 90/4,5 Raptor & Volestigmat / 105/6,5 Elmar / 105/2,5 Nikkor / 110/5,6 Tele Rokkor / 127/4,5 Volestigmat / 135/4 Elmar / 135/3,5 Angenieux, Nikon & Komura / 40cm Telyt / Visoflex I, II, III & access.
Leica copies cameras and lenses in stock !

HASSELBLAD

Rollei 6008i & TLR 3,5F & Rollei 2,8 in & SLX In Stock
503Cx camera w.80mm & A12 back Ex+ Call
40mm,50mm,60mm,120mm,150mm,350mm Call
H2 Kit w.70mm box Mint- Call
H-lenses: 50/3,5mm, 210/4mm w.box M- Call
More Hasselblad items in stock Call NOW!!



Nikon & Canon Digital SLR in stock (USA DEALER)

Nikon & Canon Rangefinder cameras & lenses in stock

WE BUY WATCHES & VINTAGE PRINTS.

In stock: Rolex Daytona, sub and others, Breitling, Glycine Airman, Omega, Tag, Tudor

Return Policy: 15-day return privilege. 90-day limited warranty on used items. Trade Top prices paid within 24 hours.



TOP PRODUCTS OF THE YEAR

By George Schaub

40 IMAGING PRODUCTS PICKED BY TIPA AS BEST PHOTOGRAPHY GEAR OF 2015

THE TECHNICAL IMAGE PRESS ASSOCIATION (TIPA) member magazines recently convened for their General Assembly to vote for the best photo and imaging products launched by the industry in the last 12 months. The voting took place during the General Assembly that was held in spring 2015 in Dubai, United Arab Emirates.

TIPA membership is comprised of editors and representatives from leading photo and imaging magazines from 15 countries on five continents, and also has a cooperative partnership with the CJPC (Camera Journal Press Club), representing 11 top photography magazines in Japan.

The TIPA Awards are renowned as the most influential photo and imaging product awards from around the world. All products and their advertising media bearing the TIPA Awards logo indicate that these have passed evaluations by TIPA's Technical Committee and magazine editors. A TIPA Award endorsement is the highest accolade for any photo and imaging product.

Shutterbug is the sole US magazine in TIPA and was represented by Editor-at-Large George Schaub, a member of the Technical Committee within the group.

For more information about the TIPA organization, visit www.tipa.com.



DSLR ENTRY LEVEL

Nikon D5500

An entry-level DSLR is one that offers easy access to all the benefits of DSLR photography to first-time users. The D5500 is a lightweight and compact DX-format DSLR (APS-C) that contains a 24.2MP CMOS sensor and can deliver up to 5 frames per second at full resolution and Full HD video with a choice of four different frames per second rates, from 24p to 60p. ISO sensitivity range is between 100 and 25,600. This is the first Nikon DSLR with a vari-angle touchscreen 3.2-inch LCD. Using Nikon's wireless app, users can connect the camera to a compatible smartphone or tablet wirelessly with no hot spot needed. For capturing action, the top shutter speed is 1/4000 second. Numerous creative modes allow the user to personalize each image's look and style.



DSLR ADVANCED

Pentax K-S2

The Pentax K-S2 is a good match for enthusiast photographers and features a 20MP CMOS sensor without a low-pass filter. It has a weather- and dust-resistant body, offers an optical pentaprism (100% field of view), and is the first Pentax DSLR with a vari-angle LCD (3-inch, 921K dots). The compact body incorporates a Shake Reduction (SR) mechanism and can handle all new and many older Pentax lenses, albeit with some requiring an adapter. The K-S2 can deliver a top shutter speed of 1/6000 second with a continuous shooting rate of 4 to 5 frames per second. Creative functions include multi exposure, interval shooting, an advanced HDR mode, Full HD video, and built-in Wi-Fi with a dedicated app to transfer images and for wireless tethered shooting.

ADORAMA WANTS TO BUY

YOUR USED PHOTO & VIDEO GEAR



ITS WORTH MORE THAN YOU EXPECT!

Whether consumer level, professional gear or even vintage cameras, your used equipment can easily be turned into cash or upgraded equipment.



Get a fast, free quote online at
Adorama.com/used or in our Manhattan, NY store.

◀ Scan Here to see how easy it is to sell and trade up!

 SHOP

 RENT

 PRINT

 LEARN

 TRADE

42 W 18TH ST NYC
800.223.2500
adorama.com

 **FREE 1-3 DAY SHIPPING**
on most orders over \$49*
*details at adorama.com/shipping

ADORAMA | **TRADE**



• **DSLR EXPERT**

Canon EOS 7D Mark II

With specs that appeal to photographers who know what a DSLR is capable of delivering, the 20.2MP APS-C CMOS sensor in the Canon EOS 7D Mark II resides within a weather- and dust-resistant magnesium alloy body along with dual DIGIC 6 processors. The camera features a 10 frames-per-second shooting rate, a 65-point (all cross type) AF system, and a 100% field of view viewfinder. Exciting features include HDR and multi-exposure modes, intervalometer and bulb timer for long exposure capture. The camera has dual card slots for both SD-type and CF cards. To support Full HD video quality there is Dual Pixel CMOS AF and a dedicated stereo microphone with a built-in headphone jack port.



• **DSLR PROFESSIONAL**

Nikon D810

The full-frame (FX) format Nikon D810 is a 36.3MP DSLR with a CMOS sensor without an optical low-pass filter. The camera can deliver up to 5 full-resolution frames per second with enhanced noise reduction in its ISO 64 to 12,800 range, which is expandable to ISO 32/51,200, and broadcast quality video in Full HD. Nikon's Scene Recognition System with the 91,000-pixel 3D Color Matrix Meter III provides balanced exposures even under difficult lighting conditions with exposure, AF, white balance, and i-TTL flash control included in the mix. For videographers, the D810 offers an HDMI port, in-camera time lapse and interval timer, a built-in stereo microphone with a selectable voice frequency range, full-time AF, and full manual control. The camera also has dual card slots capable of handling both SD and CF memory cards.

ARCA-SWISS monoball® Z



The leader of tripod head design for over 40 years setting new standards for the ballheads. The Z boast new technical developments and optimized materials and coatings. The size and weight have been reduced. Patented ARCA-SWISS features like gravity compensation, PMF (progressive motion related friction control) are only a part of the feature list of the best ballhead. Incredible as the Z can withstand a 60kg (122lbs) off-axis. Z-series are available as version Z sp single pan Z dp double pan



ARCA-SWISS INC
Phone: 480 755-3364
E-mail: rod.klukas@arca-swiss.com



myowncover
upload - design - order



Looking for a personalized gift
for almost any occasion?

- Upload your own photos
- Design great personalized covers
- Order prints to share or give as gifts

Create your own magazine cover and be a star.

www.myowncover.com



SHUTTERBUG

Join our journey.

Follow us on Facebook at
facebook.com/shutterbugmag
and share images and ideas!



bella ART PRINTS

BEAUTIFUL PAPER, BEAUTIFUL PHOTOS, BEAUTIFUL ART

free PRINTS



Download Marathon ROES to order
ten free test 8x10 prints on any choice
of paper + free shipping.

Get started by going to:
Shutterbug-June.com

Marathon

Design. Print. Websites. Marketing.
(800) 228.0629 | MarathonPress.com

TOOLS / TIPA AWARDS



1 ENTRY LEVEL DSLR LENS

Sigma 18-300mm F3.5-6.3 DC Macro OS HSM Contemporary
Aimed at DSLR photographers with an APS-C sensor camera that want one lens to handle a wide range of shooting situations, the Sigma 18-300mm F3.5-6.3 DC Macro OS HSM Contemporary delivers an effective range (due to APS-C multiplication factor) of 27-450mm. The lens contains an improved optical stabilization system, so important to image quality in such a long range zoom. Constructed with 17 elements in 13 groups, the lens offers a minimum focusing distance of 15.4 inches, thus the Macro designation. Perhaps the most intriguing specs are the size and weight for such a lens: 4 inches in length, unextended, and 20.6 ounces in weight, making it an extremely portable lens for beginner DSLR photographers.



2 EXPERT DSLR ZOOM LENS

Canon EF 100-400mm f/4.5-5.6L IS II USM

Designed for full frame but equally beneficial for APS-C DSLR users who want to gain even more zoom range, the Canon EF 100-400mm f/4.5-5.6L IS II USM incorporates a four-stop Image Stabilizer and a fast, near-silent AF motor (USM). The lens is constructed of 21 elements in 16 groups, including Fluorite and Super UD (Ultra-low Dispersion) lens elements for high image quality across the frame and also features Canon's Air Sphere Coating (ASC) for reduced ghosting and flare. A nine-bladed circular aperture delivers smooth and impressive bokeh. The rear focusing design, with a floating element, enhances AF speed and ensures uniformity in image quality at all focusing distances. Additionally the zoom operation includes a mechanism for adjusting zoom ring torque. The lens package includes a tripod mount collar.



➤ EXPERT DSLR PRIME LENS

Sigma 24mm F1.4 DG HSM Art

Combining a fast maximum aperture with a wide-angle lens that opens up intriguing photo opportunities, the Sigma 24mm F1.4 DG HSM Art lens is designed for full-frame sensors and is constructed with 15 elements in 11 groups. It contains both "F" Low Dispersion (FLD) and Special Low Dispersion (SLD) glass to minimize chromatic aberration, especially at the edges of the image. Close-focusing distance is 9.8 inches. To enhance maximum aperture performance, aspherical elements are positioned at the rear of the lens, plus a new lens element design optimizes peripheral brightness. The lens incorporates a new full-time manual focusing mechanism even with AF mode selected. To ensure "Art" line quality, every lens is subject to Sigma's own MFT measuring system prior to leaving the factory.



➤ PROFESSIONAL DSLR LENS

Canon EF 11-24mm f/4L USM

Canon users now have access to the widest angle of view yet achieved for a rectilinear full-frame DSLR zoom lens. With a minimum focusing distance of 11 inches, the Canon EF 11-24mm f/4L USM delivers minimally distorted images throughout its range. It is constructed of 16 elements in 11 groups with a three-group zoom system and rear focus. The new design incorporates four aspherical elements to minimize distortion from the center to the frame edge and an optical array that provides straight lines with minimal curvature throughout the entire range. The lens also features one Super UD and one UD lens element to significantly reduce chromatic aberration and Canon's SWC coating to reduce flare and ghosting. It is well sealed for dust and water-resistance and allows for manual focusing overrides even when in AF mode.



SUPPORTING
THE ART OF PHOTOGRAPHY

Professional Tripod Series

A full line of photo and video tripods, monopods and ball heads in both aluminum and carbon fiber.

Available exclusively at Adorama.



ADORAMA
MORE THAN A CAMERA STORE

42 W 18TH ST NYC
800.223.2500
adorama.com



FREE 1-3 DAY SHIPPING
on most orders over \$49*

*Excludes all Adorama.com orders

➔ MEDIUM FORMAT CAMERA

Pentax 645Z

With an imaging area of 43.8x32.8mm, the 51.4MP CMOS sensor in the Pentax 645Z is about 1.7x larger than those found in full-frame DSLRs. The camera can deliver 3 frames per second with a 10-image burst capability in Raw and up to 30 in Large JPEG format. The tiltable 3.2-inch LCD monitor contains 1.037 million RGB dots and has an "anti-gapless" construction that reduces reflection and dispersion of light that is further enhanced by a special Anti-Reflection coating. There is also a large and bright optical finder. A newly designed SAFOX 11 phase-matching AF module contains 27 sensor points, including 25 cross-type sensors; when matched with a Live View function that can magnify the on-screen image, very precise focusing adjustments can be made. If desired, ISO sensitivity can be raised to an incredible 204,800.



"The 51.4MP CMOS sensor in the Pentax 645Z is about 1.7x larger than those found in full-frame DSLRs."

GRASLON™

PRODIGY™ FLASH DIFFUSER WITH IBT™ MIRROR SYSTEM



To the left, is an image showing the Graslton Prodigy without its diffusion lens. Take a look at the patent-pending IBT mirror system inside; the goal is to first enlarge the light from the flash before sending it through the diffusion lens, making it incredibly soft.



* Diffusion lens removed for display purposes. Not intended for use without diffusion lens.

With a Graslton diffuser, you will never have to rely on walls or ceilings for bounce and will consistently have great lighting, regardless of your surroundings. This makes the 8in x 5in Graslton Prodigy a great choice for event photographers.

Find Graslton at these retailers and others:

Camera West - Racho Mirage, CA
Peachtree Camera - Marietta, GA

Paul's Photo - Torrance, CA
Willoughby's Camera - NYC



Direct Flash Only



Graslton Prodigy Diffuser



➔ CSC (COMPACT SYSTEM CAMERA) ENTRY LEVEL

Sony Alpha 5100

Dubbed a "super compact" CSC, the Sony A5100 is about half the size of a conventional DSLR. The camera holds a 24MP APS-C CMOS sensor with the same gapless on-chip lens structure as the company's Alpha 7R. The camera delivers a very fast 0.07-second AF acquisition time, with up to 6 frames per second continuous shooting with AF tracking, aided greatly by the 179-point phase detection AF sensor.



There are numerous video options: Full HD in cinematic 24p, 60p, and 60i frame rates; selectable in-camera XAVC S with a 50Mb/second bit rate; Blu-ray-quality AVCHD; and MP4 codecs, all with HDMI connectivity. The camera also delivers an impressive ISO range of 100 to 25,600. It's compatible with Sony Alpha E-mount lenses, and Alpha A-mount lenses with an optional adapter.

Cash for Cameras

Buying & Selling Since 1914



National Camera Exchange wants to buy your used photo and video gear! We have been a trusted photography source offering personalized service for over 100 years! Just give us a call or visit us online at natcam.com for a quote.



Get an online quote



Call for instant quotes



Top dollar paid



Easy, personalized service



Fast & free shipping

**Receive Your Free
Quote Today:**

Call:
1.888.873.1979

Email:
used@natcam.com

Bring it in or ship it:
National Camera Exchange
Attn: Shutterbug
9300 Olson Memorial Hwy
Golden Valley, MN 55427

SINCE 1914

National Camera Exchange

■ capture ■ create ■ inspire

natcam.com

➤ CSC ADVANCED

Panasonic Lumix DMC-GM5

Measuring a mere 2.34-inches high by 3.88-inches wide, the 0.46 pound Panasonic DMC-GM5 is a very compact and highly portable Micro Four Thirds CSC. The camera's Live View finder has 100% coverage and contains 1.16M RGB dots; its Digital Live View MOS sensor delivers 16MP. For connectivity, the user can simply scan the QR code displayed on the camera monitor with a smartphone or tablet and use either as a remote controller. The camera delivers JPEG and Raw stills or AVCHD or MP4 video. It has all the standard exposure modes plus a full complement of metering patterns, plus an ISO range of 200 to 25,600 (video: ISO 200 to 3200). The impressive shutter speed range is 60 seconds to 1/16,000 second.



➤ CSC EXPERT

Olympus OM-D E-M5 Mark II

Housed in a dustproof, splash-proof, and freeze-proof magnesium alloy body, the 16.1MP Four Thirds Live MOS sensor and TruePic VII processor of the Olympus OM-D E-M5 Mark II delivers a wide array of creative imaging options and an ISO up to 25,600. The camera sports a 2.36M-dot EVF (electronic viewfinder) and a 3-inch 1,037K-dot swivel touchscreen LCD monitor. Its extremely quick Fast AF boasts an 81-point area, excellent low-light performance and tracking AF, delivering fast AF for the camera's 10 frames-per-second rate at full resolution. The camera also has a five-axis sensor shift image stabilization system for both still and Full HD video shooting, a breakthrough technology that handles virtually every shooting situation, plus a special "High-Res Shot" option that is said to deliver resolution equivalent to a 40MP sensor by combining eight shots into a single JPEG using sensor shift.

➤ CSC PROFESSIONAL

Samsung NX1

Built for speed and responsiveness, the Samsung NX1 has a 28.2MP APS-C CMOS sensor and the company's DRiMe V processor that drives both 4K video and a full-resolution still image shooting rate of 15 frames per second, all with AF. Viewing is via a 3-inch 1,036K-dot AMOLED tilting touchscreen monitor as well as a high-resolution 2,360K-dot XGA OLED EVF. The camera has an ISO range of 100 to 25,600 (with a "push" to 51,200) and a new hybrid AF system that combines phase- and contrast-detection with AF points that cover almost the entire viewfinder screen. There are a host of video options that the NX1 supports: DCI 4K – 4096x2160 at 24p and UHD 4K – 3840x2160 at 24p/30p. Also, NX1 can capture up to 120 fps at Full HD. Connectivity is via Wi-Fi, NFC, and Bluetooth, as well as USB 3.0. A free Samsung Camera Manager app aids in transferring images and remote control operation.



➤ CSC ENTRY LEVEL LENS

Tamron 14-150mm F/3.5-5.8 Di III

CSC cameras promise a lighter and more portable photographic experience. In line with this approach, Tamron has created a lightweight and compact MFT (Micro Four Thirds) compatible lens. Delivering an impressive (equivalent) focal length range of 28-300mm, the lens weighs a mere 10.1 ounces and is a mere 3.16 inches in length (unextended). Constructed of 17 elements in 13 groups, the lens has an impressive close-focusing distance of 1.64 feet and contains AD (Anomalous Dispersion) glass as well as hybrid aspherical and LD (Low Dispersion) elements. An IF (Internal Focusing) system means the lens does not extend during focusing. The lens comes in both black and silver models to match the user's camera body.

➤ CSC EXPERT ZOOM LENS

Fujinon XF 16-55mm f/2.8 R LM WR I

Another in the expanding lineup of Fujifilm's well-sealed lenses, the XF 16-55mm is constructed with 17 elements in 12 groups with three aspherical and three ED glass elements. This lens offers a 24-84mm equivalent range and uses 14 sealing points in its weather- and dust-resistant design. It features a nine-bladed diaphragm, 1/3 EV increment settings, and a minimum focusing distance of less than 12 inches. With the newly developed Nano-GI (Gradient Index) coating technology, the lens effectively inhibits flare and ghosting. The lightweight internal focusing system and twin linear motor make for quiet, speedy AF with an acquisition time as fast as 0.06 seconds.



➤ CSC PRIME LENS

Zeiss Loxia Line

Designed for those whose passion is engagement in the picture-making process, the Zeiss Loxia lineup features manual focus and aperture setting lenses made specifically for Sony E-mount full-frame cameras. There are two current lenses in the lineup, both with a maximum aperture of $f/2$ —a 35mm and a 50mm. The 35mm lens is based on a Biogon design and is constructed with nine elements in six groups and has a minimum focusing distance of slightly less than a foot. The 50mm is based on a Planar design and has six elements in four groups, with a similar close-focusing distance capability of 1.2 feet. A "declickable" aperture setting (free range) can be used for video shooting. A large focus rotation angle of 180 degrees allows for very precise focusing.



"The 35mm lens is based on a Biogon design and is constructed with nine elements in six groups and has a minimum focusing distance of slightly less than a foot."



➤ EASY COMPACT CAMERA

Canon ELPH Line: 160/165/170

Canon has gone against the tide that supposedly swept away the possibility of new and exciting entrants in this camera category, and has done so with compact and very affordable units that provide what cameraphones lack: long-range optical zoom and stunning image quality. For example, the Canon ELPH 170 is an exceptionally slim camera with a very long-range optical zoom: 12x (25-300mm equivalent). It has a 20MP sensor and Intelligent IS, Canon's adaptive Optical Image Stabilizer that aids in capturing shake-free stills and 720p HD video. Users can rely on the Smart Auto Mode, which automatically chooses the best settings for the scene, or from a number of special effects modes. The ELPH 165 also comes with Intelligent IS, while both ELPH 165 and ELPH 160 models house an 8x zoom and 20MP sensor.

EXPAND YOUR REACH

HIGH-OUTPUT BEAUTY DISHES

22H0BD SILVER

THE 22H0BD 22-INCH SILVER BEAUTY DISH 179⁹⁵



With six times the efficiency of a white dish, you can light your subjects from greater distances with low-power flash units. Attaching the included diffusion sock creates the equivalent of a round softbox with very even coverage. This widens the angle from approximately 45° to 150° while lowering the output by about 2.5-3 f-stops and minimizing specularities. Can be used with or without the included light-blocker.

22H0BD-W WHITE

THE 22H0BD-W 22-INCH WHITE BEAUTY DISH 179⁹⁵

Enjoy the same high-output design of the silver dish, but with a softer finish that produces smooth skin tones. With a beam spread of 130° (without the use of the included diffusion sock), this reflector is great for indoor portraits to create warmer tones, or for diffusing hot spots that might occur on shimmering fabrics or reflective surfaces. Can be used with or without the included light-blocker.



BABY BOOMER

For more controlled spread of light, we offer a 15° grid (\$99.95) and 30° grid (\$69.95) for both 22-inch reflectors. We additionally offer the Baby Boomer™ offset mounting arm (\$14.95) for increased flexibility in angle adjustments.

BUFF™

Toll Free 1-800-443-5542 WWW.PAULCBUFF.COM
615-383-3982 · 2725 Bransford Ave., Nashville, TN 37204



EXPERT COMPACT CAMERA

Fujifilm X30

Photographers want a compact camera for a day trip or casual vacation photography that still delivers features they expect along with high-quality image results. Compact (4.7x2.8x2.4 inches) and lightweight (14.9 ounces), the X30 contains a 12MP 2/3-inch X-Trans CMOS II sensor for Raw and JPEG stills and MOV format video with stereo sound. The Fujinon 4x zoom (equivalent 28-112mm) only changes by one stop from wide to telephoto settings (f/2-2.8) and offers an f/11 minimum aperture. Shutter speeds top out at 1/4000 second and ISO ratings go as high as 12,800. Frame rates of 12 per second can be achieved, plus image stabilization is built in. A 2.36M-dot resolution EVF is dubbed a "real time" viewfinder with a 0.005-second display lag time.

SUPERZOOM CAMERA

Nikon Coolpix P610

With a remarkable 60x integral Nikkor ED glass zoom lens (equivalent: 24-1,440mm), the Nikon P610 can deliver 7 full-resolution images per second and Full HD video while utilizing Nikon's five-stop Dual Detect Optical VR image stabilization. The camera has a 16MP CMOS sensor, an EVF, and a 3-inch vari-angle LCD, both with 921K-dot resolution. Shooting features include filter effects and special effects, as well as a macro mode, plus time lapse video recording. The P610 has built-in GPS and allows users to easily send images to a compatible smartphone or tablet using built-in Wi-Fi and NFC connectivity. If desired, the user can also double the range of the lens using Nikon's Dynamic Fine Zoom, a digital zoom function.



RUGGED CAMERA

Panasonic Lumix DMC-TS6

Compact is the trend in rugged cameras and the Panasonic DMC-TS6 packs a lot of features into a small package. It can handle underwater depths to 43 feet and drops from 6.6 feet and still keeps shooting in temperatures as low as 14°F. Trail aids such as on-board GPS, barometer, and altimeter are included. The camera has a 16.1MP MOS sensor and an integral 4.6x (28-128mm equivalent) Leica DC Vario-Elmar zoom. ISO range is 100 to 3200 with a push to 6400 available in certain modes. It can record Full HD and shoot at 10 frames per second (seven-frame burst); higher bursts are available at lower image resolution. There are 14 Creative and 16 Scene modes, plus Wi-Fi and NFC compatibility.

Excellence just got better

NEW: The award-winning Nissin Air System

Nissin
DIGITAL

Di700A



+



Air 1
Commander

Flash Di700A and Air 1 Commander 2.4 GHz Radio Transmission Wireless System

- GN54 (200 mm) / GN28 (35 mm), ISO 100
- E-TTL/E-TTL II (Canon) / i-TTL (Nikon)
- Focal length coverage 24 – 200 mm
- Wireless TTL Slave-Group A/B/C
- Socket for Power Pack
- Simply controlled by one finger



Winner of the
TIPA Awards 2015
Nissin has won
the TIPA Award
for "Best Lighting
System" in 2013,
2014 and 2015

Nissin is distributed by:
MINOX USA
PO Box 123
Meriden, NH 03770
Phone (866) 469-3080
www.minox.com/usa

Exclusive
2-year warranty
from MINOX USA

Buy ■ Sell ■ Trade

New & Used Cameras & Accessories

FREE
SHIPPING



A trusted photography source for 100 years

Leica Screw

Ilif E.....	\$199
Ilif RD ST E+.....	\$399
35 f3.5 Summaron E.....	\$295
50 f2 Summitar E++.....	\$399
50 f3.5 Elmar E.....	\$199
90 f4 Elmar E.....	\$125
13.5 f4.5 Hektor E.....	\$95

Leica M

M6TTL E++.....	\$1599
28 f2.8 Elmarit-M (II) E+.....	\$799
35 f2 ASPH Summ. 6Bit E++.....	\$2399
35 f3.5 M3 fog E+.....	\$249
50 f2 Summ. silver E++.....	\$799
90 f2 ASPH 11884 NM.....	\$2499
90 f4 Elmar E.....	\$99
90 f2.8 Elmarit E.....	\$349
135 f4.5 Hektor E.....	\$95
135 f4 Tele-Elmar E+.....	\$399
135 f4 Elmar E.....	\$249
M-R Adapter E++.....	\$119
Handgrip M E++.....	\$75
Winder M E++.....	\$75
SF20 E+.....	\$89
Old Hoods.....	Call

Leica R

R4 E+.....	\$149
21 f2.8 2Cam E+.....	\$399
21 f2.8 E+.....	\$499
28 f2.8 E+.....	\$349
50 f2 1Cam E+.....	\$299
50 f2 2Cam E+.....	\$349
50 f2 E+.....	\$399
90 2.8 2Cam E.....	\$149
135 f2.8 E+.....	\$349

180 f2.8 E.....	\$449
180 f4 E+.....	\$249
250 f4 E.....	\$399
2XR SL/SL2 E+.....	\$79
28-70 f3.5-4.5 E.....	\$289
Motor Winder R8 NM.....	\$149
Universal handgrip 14239 M.....	\$149

Nikon

D100 E+.....	\$65
D200 E+.....	\$139
D300 E+.....	\$329
D300s E+.....	\$479
D5000 E+.....	\$179
D5100 E++.....	\$369
D5200 E++.....	\$549
D600 E++.....	\$899
D7000 E+.....	\$399
D80 E+.....	\$139
D90 E+.....	\$299
AF 14 f2.8D E++.....	\$799
AF 20 f2.8D E++.....	\$399
AF 24 f2.8D E+.....	\$299
AF 28 f2.8D E+.....	\$149
AF 35-70 f2.8 D E+.....	\$299
AF 70-210 f4-5.6D E+.....	\$79
AF 70-300 f-5.6D E+.....	\$89
AF-S 24 f1.4G E++.....	\$1699
AF-S DX 18-105 VR E+.....	\$179
AF-S DX 18-55 VR E+.....	\$89
AF-S DX 18-70 E+.....	\$134
AF-S DX 18-200 VR E+.....	\$249
AF-S DX 18-300 VR E+.....	\$699

Bronica

E 40 f4 MC E+.....	\$119
E 150 f3.5 MC E+.....	\$49
E Rotary Prism E E++.....	\$149
E Waist Level E E++.....	\$89
E 120 Back E.....	\$29
E Polaroid Back E E+.....	\$49
E Speed Grip E E.....	\$34

SQ 50 f3.5 PS E+.....	\$149
SQ 80 f2.8 PS E+.....	\$89
SQ 150 f4 PS E+.....	\$79
SQ Waist Level S E+.....	\$69
SQ Prism S E++.....	\$89
GS 65 f4 PG E-.....	\$149
GS 150 f4 PG E++.....	\$129
GS G-36 Tube G M.....	\$99
GS 250 f5.6 PG NM.....	\$199

Hasselblad

500C/M w/wl E+.....	\$295
501C w/wl E.....	\$499
2X Kenko E+.....	\$50
PM5 E+.....	\$179
Ext Tubes E+.....	\$45
NC2 E-.....	\$50
A12 E++.....	\$125
Polaroid Back E+.....	\$49

Mamiya RB

127 f3.8 C E.....	\$79
180 f4.5C E+.....	\$99
2X Kenko E+.....	\$49
Ext Tube 45mm E+.....	\$49
120 Pro SD Back E+.....	\$99
Prism E.....	\$49
Prism Model 2 E+.....	\$79

Mamiya RZ

RZ 120 Pro Back E++.....	\$39
RZ 120 Pro II Back E+.....	\$79
RZ67 Waist Level E++.....	\$69

Mamiya 645

M645J E++.....	\$139
AF 150 f3.5 E++.....	\$399
55-110 f4.5 N E+.....	\$179
Pro 120 Back E+.....	\$79
Pro Prism E+.....	\$79
Polaroid Back E+.....	\$45
Polaroid Back 645AF E+.....	\$49

Pentax 645

645 +75mm Kit E+.....	\$349
200 f4 SMC-A E++.....	\$119
645N E++.....	\$549
FA 80-1690 f4.5 E++.....	\$549

Pentax 6x7

67+TTL E++.....	\$499
45 f4 SMC E-.....	\$179
100 f4 Macro SMC E++.....	\$499
200 f4 SMC E+.....	\$129
1.4X E+.....	\$149
Auto Ext Tube E++.....	\$89
Prism 6x7 E+.....	\$99
67II BG60 screen E++.....	\$99
Right Angle M.....	\$89

TLR

Mamiya C220 80mm E-.....	\$99
Mamiya 105 f3.5C E+.....	\$89
Rolleiflex 3.5 MX E+.....	\$349

Large Format

150 f6.8 Caltar-II-E E++.....	\$149
210 f5.6 Caltar II-N E+.....	\$189
210 f5.6 Symmar-S E++.....	\$249
210 f6.8 Geronar E+.....	\$199
240 f5.6 Symmar-S E++.....	\$249
240/420 Symmar no shutter E.....	\$119
300 f5.6 Nikkor-W E++.....	\$449
360 f6.3 Fujinon-W E++.....	\$399
Cambo SC 4x5 E+.....	\$95
Cambo Legend 4x5 E.....	\$299
Calumet C2 8x10 Blk Field E+.....	\$499
Super Speed Graphic 4x5 E.....	\$349
Sinar F2 4x5 E+.....	\$449
Sinar X 4x5 E.....	\$799
Sinar 5x7-4x5 reducing E++.....	\$199
Toyo-View 45CX 4x5 E+.....	\$249
Polaroid 405 Back E+.....	\$159
4x5 Film Holder E.....	\$8
5x7 Film Holder E.....	\$15

Call Toll Free or Email Us for a Quote
1.888.873.1979 | used@natcam.com

M-F 9AM-5PM | FREE SHIPPING | 90-DAY USED WARRANTY
9300 Olson Memorial Hwy, Golden Valley, MN 55427

Free & Easy
Quotes!

SINCE 1914

National Camera Exchange

■ capture ■ create ■ inspire

natcam.com



PREMIUM CAMERA

Fujifilm X100T

The 16.3MP APS-C X-Trans CMOS II sensor and EXR processor in the Fujifilm X100T delivers impressive options and capabilities in this compact, integral lens (f/2, approximately 35mm equivalent) camera. The high-resolution optical Advanced Hybrid Viewfinder (2,360K-dot) has a rangefinder aspect to it. By turning the focusing ring users can select Focus Peaking and Digital Split Image mode, plus magnification of the area focused upon can be inspected for fine focus control. The finder also allows for what Fujifilm dubs "Real-time Parallax Correction." Other impressive features include an incredible top shutter speed of 1/32,000 second, seven customizable "Fn" buttons, Full HD video with numerous selectable frames rates (with optical finder viewing), and built-in Wi-Fi for transfer and remote camera operation via the company's Camera Remote app.

PHOTO PRINTER

Epson SureColor P600

This eight-color photo printer features sheet and roll feed, the ability to print on CDs and DVDs, and USB and Ethernet connections plus wireless options. Its Epson UltraChrome HD ink has been reformulated with pigmented inks that include Light Black, Light Light Black, Photo Black, and Matte Black cartridges, which give a good indication of the printer's ability to satisfy the needs of black-and-white and monochrome printmakers on both glossy and matte surface papers. It features a new Epson print engine and screening technology, as well as ink droplets as small as 2 picoliters to enhance print quality. A 2.7-inch LCD touchscreen panel allows access to printer controls.



INKJET PHOTO PAPER

Canson Infinity Photo Lustre Premium RC 310 gsm

The quality of an inkjet print is of course dependent on the skill of the printmaker and the content of the image, but having a paper that will deliver optimal results can be just as important. Canson Infinity Photo Lustre Premium RC offers a flexible and sturdy weight of 310 gsm (grams per square meter) that does not pose challenges to most inkjet printer feeds yet delivers a print that will mount well and will not be easily damaged during handling. It consists of an alpha cellulose acid-free paper base coated with a structured polyethylene and a microporous receiver layer, and is compatible with both dye and pigmented inkjet printers. The combination of an extra-white base and stunning luster finish brings out the best in color and monochrome images.

PHOTO PROJECTOR

Epson EH-LS10000 Projector

With almost all cameras now providing Full HD video and many now with 4K as well, the EH-LS10000 Projector is a model that will match the needs of the most discriminating viewer. This projector features 4K enhancement for increased sharpness, an unprecedented Absolute Black contrast ratio, and delivers Color and White Brightness at 1500 lumens. The EH-LS10000 Projector boasts a wider color gamut, which produces richer colors and smoother gradations. The EH-LS10000 Projector offers Epson's advanced 3LCD Reflective three-chip technology and comes with vertical and horizontal motorized lens shift to allow for easy configuration of the projector setup.



PHOTO SCANNER

Epson Perfection V850 Pro

The Photo Scanner category has not been included in the TIPA Awards selections for many years, but the introduction of the Epson Perfection V850 Pro inspired members to bring it back. The V850 Pro allows for scanning of all film sizes up to 4x5 inches using the supplied frames, and up to 8x10 inches without them. It utilizes an LED light source that opens up tonal values, especially noted in black-and-white negatives. The newly designed frame film holders are sturdy and snap tight and snugly over strip and cut film sizes. An Anti-Newton ring plate helps eliminate moire patterns and color shifts. Included in the software supplied are Digital Ice Technologies, LaserSoft SilverFast SE Plus 8, X-Rite i1 Scanner and IT8 targets. The V850 incorporates what Epson dubs High Pass Optics with a high reflection mirror and anti-reflection coated CCD glass for enhanced image quality.



CAPTURE ONE PRO 8

IMAGING SOFTWARE

Phase One Capture One Pro 8

Raw converters should bring the most out of any Raw image, regardless of camera or shooting conditions. Capture One Pro 8 handles Raw conversion from over 300 high-end cameras with digital asset management, extensive and comprehensive adjustment tools, and a flexible workflow environment. Exhaustive testing by Phase One means that each Raw format conversion is customized to bring out the best in color and optimize noise reduction. Users can import images from cards or drives, or, in a studio environment, directly from the shoot by using remote operation and Live View. Clients can even follow the shoot remotely using Capture Pilot. For sharing and display, the software helps format images for different viewing environments, and to create slide shows and web galleries.

ACCESSORY

UniqBall Ball Head

Ball heads are both practical and versatile for a wide range of shooting situations and terrain, making them a prime choice for nature and outdoor photographers. UniqBall has expanded on the concept by creating a ball head that combines traditional functionality with that of a gimbal head, a pan-and-tilt head, and a fluid video head, while also having an integrated leveling ball for shooting with a perfectly straight horizon. The UniqBall, which comes in two sizes/load capacities, is an Arca-type compatible ball head with an integrated leveling base and bubble level, and comes with a quick-release plate and case. UniqBall heads are designed so that once the outer red shell is leveled and fixed, the inner black ball only allows a pan-and-tilt movement. Conventional ball head use can be accomplished by locking the inner black ball and only using the outer red shell for adjustments.



TRIPOD

Manfrotto Befree Carbon Series

Everyone knows that using a tripod enhances image quality, yet many photographers do not carry one because they assume they will be burdensome and heavy. The compact and portable Manfrotto Befree Carbon series should overcome these concerns. Offered in both aluminum and now carbon-fiber models for camera/lens combinations under 9 pounds, the design results in a 15.7-inch folded length; the Quick Release Adaptor makes for very tight packing of the legs. The carbon-fiber version weighs a mere 2.4 pounds. Both versions have handy lock/release leg extensions and two leg-spread options, with a maximum extension of 56 inches with the center column extended.

NOW ACCEPTING CONSIGNMENTS FOR OUR FALL 2015 RARE CAMERA AUCTION!

TAMARKIN RARE CAMERA AUCTIONS

Visit www.tamarkinauctions.com
for more information on our
Fall 2015 Auction.



Call us at 800.289.5342 to inquire or e-mail info@tamarkinauctions.com



STORAGE MEDIA

Eyefi Mobi Pro

Making transfer of images easy from card to a variety of devices, this 32GB SDHC, Class 10 card can be used to selectively transfer JPEG and Raw format stills and video wirelessly. Using an easy setup protocol, it can connect to iOS and Android devices as well as PC and Mac laptops and desktop computers. It can use direct and networked Wi-Fi in both home and studio environments. Included in the card purchase is a free one-year membership in the Eyefi Cloud with unlimited photos, which allows access to images from any device, with EXIF data, albums, and tags synced. Users can access images anytime, anywhere, and share privately with immediate notification. Also included is an Eyefi USB card reader and activation card for the Eyefi Mobi app.



MOBILE IMAGING DEVICE

Sony ILCE-QX1

Smartphone photographers often see little point in carrying both phone and camera for picture making, but more and more come away wanting better image quality and more shooting flexibility. The Sony QX1 offers true mirrorless camera capability in a compact, "body-less" solution. The unit attaches to a smartphone with an easy adapter or it can also be used independently of the smartphone if desired with the smartphone used as the viewfinder via an NFC/Wi-Fi connection. The QX1 has a large APS-C 20.1MP image sensor, a built-in flash, and a mount to attach any Sony Alpha E lens. Third-party lenses can also be attached via the appropriate mount adapter. Once a picture is made it can be stored on both camera and phone memory. The QX1's low-light performance is clearly superior to that delivered by smartphones, as are the resultant 30p HD videos.

EXPERT PHOTO/VIDEO CAMERA

Panasonic Lumix DMC-LX100

For enthusiasts who want both a quality still and video camera, the LX100 has a 12.8MP 4/3-inch High-Sensitivity MOS sensor, and the ability to record 4K video. The LX100 has an integral 24-75mm (equivalent) f/1.7-2.8 Leica DC Vario-Summilux lens and numerous control and exposure dials that allow for complete control over still imaging, including the ability to deliver 11 frames per second full-resolution images. The video side is quite impressive, with the ability to record Full HD 1920x1080 AVCHD Progressive or MP4 at 60p, or 4K 3840x2160 at 30 fps. Panasonic has proposed what they dub "4K Photo," grabbing an 8MB still image from the 4K video footage. Other features include Wi-Fi and NFC connectivity and a Raw+JPEG format choice.



PROFESSIONAL PHOTO/VIDEO CAMERA

Sony Alpha 7S

Sony's strategy of using larger pixels on a full-frame Exmor CMOS sensor (12.2MP) pays dividends in the very high dynamic range (15.3 stops), excellent low-light capability (Fast Intelligent AF to -4 EV and low noise), and extremely high sensitivity (extended ISO range 50 to 409,600) of the Alpha 7S. Sony's "direct pixel readout" utilizes the entire width of the Alpha 7S' sensor without line skipping or pixel binning, which means that both HD and 4K video data is processed from each and every one of the sensor's pixels. The unit allows users to shoot with uncompressed 4:2:2 Full HD and uncompressed QFHD 4K video in 8-bit 4:2:2, with the latter put through to a third-party 4K recorder via HDMI. It comes equipped with SLog2 gamma, found in Sony's professional video cameras, which offers the ability to include a picture profile for gamma, black, level and color adjustments that can be saved for use in a multi-camera shoot.

PORTABLE FLASH

Nissin Air System

The Nissin Air System is a radio-transmission wireless flash that includes the company's Di700A flash and Commander Air 1. The 2.4GHz radio transmission has a coverage of up to about 100 feet and is uninterrupted by angle of view or normal obstacles that would plague optical wireless transmitters. Different transmission channels and radio IDs can be set, ensuring no misfires due to other units that might be operating in the vicinity. The Nissin Commander Air 1 can control up to three groups of Di700A units, and combinations can be mixed for use as wireless TTL or manual flash. The flash offers high-speed sync of 1/8000 second, second curtain sync, and an electronic zoom head for enhanced coverage in the 24-200mm range.



PHOTO MONITOR

LG Digital Cinema 4K Monitor (31MU97Z)

To meet the increasingly exacting demands for both still and 4K video editing, the LG Digital Cinema 4K offers 10-bit color depth, said to be 64x richer than an 8-bit display with smoother transitions in gradients and more natural color rendition. It supports Adobe RGB over 99.5% on the IPS display. DCI color standard support ensures video footage edited in post will have accurate rendition of shadow, color saturation, and brightness. Still images can be split via a "Dual Color Space" feature that makes viewing of an image for both sRGB (web) and Adobe RGB (print) possible. The unit also has a pivot feature for viewing landscape or portrait orientation as well as built-in color management controls. Connectivity is via Thunderbolt 2 and there are two internal MAXXAUDIO 5w speakers, for business or pleasure as you work.





www.shutterbug.com

© Dan Havlik





PROFESSIONAL LIGHTING SYSTEM

Profoto B2

Lighting flexibility leads to lighting creativity, and the Profoto B2 Off-Camera Flash can be utilized for a wide variety of lighting setups in both on- and off-camera modes of operation. The B2 has TTL and HSS compatibility with both Canon and Nikon, but the B2 also works in Manual Mode with most other camera brands. The 250Ws B2 Head can be set in a wide nine-stop energy range and has a fast recycle time ranging from 0.03 to 1.35 seconds. The B2 can also be used with Profoto's entire assortment of more than 150 Light Shaping Tools.



PHOTO SERVICE

Zenfolio

Today's photographers require a large arsenal of tools to maintain competitiveness and build profits in a connected world, and Zenfolio can be thought of as a one-stop shop for all their needs. The company offers two main options: a display and sharing service for the enthusiast photographer, and marketing and transactional services for those who want to use the service to promote and sell their work. For website building, the company offers dozens of customizable designs that include numerous templates and color and design options. For e-commerce and other marketing tools, photographers can create customized portfolios, blogs, and direct sales scenarios. In addition, Zenfolio offers numerous products through their integrated fulfillment vendors. Photographers may sell digital downloads as well as create any product that they wish such as custom photo books, CD/DVDs, photo stamps, mugs, and other personalized items.

PHOTO BAG

Think Tank Photo Airport International LE Classic Flying has become less pleasant for photographers as carry-on restrictions have become more stringent. Being able to use a well-built roller camera bag specifically designed for airline travel, which meets both US and international carrier carry-on specifications and has TSA-approved combination zipper locks for security, certainly makes that part of travel more pleasant. This roller bag holds up to a 500mm f/4 lens (unmounted), additional smaller lenses, and up to two gripped DSLR bodies, or a standard pro camera kit with two bodies, multiple lenses and flash and accessories, plus a 15- or 17-inch laptop. The exterior is water-resistant with extra skid plates and replaceable in-line skate style wheels; the interior offers a rain cover and closed cell foam and reinforced dividers.



ACTIONCAM

Ricoh WG-M1

This hot segment of the market continues to grow and the Ricoh WG-M1 offers a unique design that is waterproof to 32 feet without an additional protective housing, is shock resistant to 6 feet, and frost-proof to 14°F. The unit has large control buttons and a 1.5-inch LCD monitor. The 14MP sensor and processor can record Full HD movies and deliver 10 frames-per-second high-speed shooting through its ultra-wide-angle lens. To help users get right into the action, the camera comes with a carabineer-equipped strap for carrying and a WG adhesive mount to help attach the camera to different surfaces. Optional accessories expand the camera's usability via a wrist strap mount, helmet mount, and more.

IMAGING INNOVATION

Lytro Illum

The Lytro Illum "light field" camera is a unique imaging platform that is driven by software that enables a selection of the depth of field of an image after exposure is made, ranging from what would be achieved by using f/1 to f/16 during exposure. Users adjust a slider in software post-exposure to choose whatever focusing effect they desire. For example, using the latest software update—Desktop 4.2—photographers could capture multiple subjects in focus at f/16 and a background blur as if the exposure were made at f/1. Native Raw file format images can be shared as playable video animations or exported in JPEG, TIFF, 3D, and MP4. New innovations and expanded video applications are being explored by the company, and TIPA members consider this a fascinating development and exciting work in progress.



BEST DESIGN

Leica T (Typ 701)

With a body machined from a single solid block of aluminum that is said to be hand-polished for 45 minutes, and a design done in coordination with Audi Design, the Leica T is both pleasing to the eye and a pleasure to use. This CSC has an APS-C 16.5MP sensor (with no low-pass filter) and a 3.7-inch touchscreen LCD that allows for quick and easy image option selections and swipe control picture review. While there are currently four purpose-built lenses for Leica CSC cameras, Leica M lenses can also be mounted via the company's M-Adapter T. A tilt and swivel optional EVF can be mounted, and integrated GPS makes this an excellent traveling companion. The free Leica App T coordinates sharing or using smartphones and tablets for remote shooting and camera control. ■



REDEFINING



StrapShot



**1 or 2
Camera Vest**

THE WAY PHOTOGRAPHERS CARRY


CottonCarrier.com
1.877.852.9423

MetalPrints
Stunning Prints on Aluminum



Alexis Cuereza

25% OFF Your First Order!
*For information about how to redeem this special offer, fill out our New Customer Account Request at bayphoto.com.

bayphoto.com

\$29
solid fabric backdrops!



Huge variety of colors and styles!

be
Backdrop Express.com

100% Customer Satisfaction Guarantee!

Follow Backdrop Express for deals, contests, & more!

f t w p g

GRASLON
Flash Diffusers
with Internal Bounce Technology

Prodigy
Softest Portable Diffuser on the Market
5" x 8" Surface Area



Insight
Light-weight, Spry, Effective
4" x 6" Surface Area



Spark
A Must Have for Your Pop-up Flash
3" x 5" Surface Area



www.graslon.com sales@graslon.com
(214) 905-9576

OP/TECH USA®
Rapid gliding motion brings your gear quickly into position



MADE IN THE USA

UTILITY STRAP™
SLING VERSION

See the demonstration video on our website!
www.optechusa.com • 800-251-7815



8x10 FOR ONLY **\$1.69**



MADE BY THURMAN THURMAN

TRUE PHOTOGRAPHIC LAB CORRECTED PRINTS ON KODAK® ENDURA PAPER

8 wallets	1.75	11 x 14	4.49
4x6	.29	16x20	14.49
5x7	.99	20x24	19.99
8 x10	1.69	20x30	25.99
10 x10	2.89	30x40	53.99

Over 80 sizes, from wallet up to 30"x120" true photographic prints, not inkjet, on Kodak® Endura Premier Professional Paper E-Surface and Metallic.

meridian
Professional Imaging

www.meridianpro.com
800-544-1370

Get a Grip!



THE COTTON CARRIER HAND STRAP

www.cottoncarrier.com

CLASSIC CONNECTION FINE CAMERAS

NEW ARRIVALS: Contax, Leica, Nikon, Olympus, Pentax, Sony, Tamron, Zeiss
Also HASSELBLAD Mamiya Canon Nikon

Leica

(USA DEALER)

NEW PRODUCT FROM LEICA COMPANY:



M black or silver 24MP cmos taking orders \$6950
LIVE VIEW AND ELECTRONIC VIEWFINDER. / FOCUS
PEAKING. / LEICA R ADAPTER M. / MULTI-PATTERN
AND SPOT EXPOSURE METERING. / FULL HD VIDEO
CAPTURE. / SPLASH WATER PROTECTED
LEICA MAESTRO IMAGE PROCESSOR.

888-LEICASAM (534-2272)

203-371-2352 / 2353

Toll-Free Fax: 866-639-1542

Fax: 203-880-1521

501 Kings Highway East
Executive Suites
Fairfield CT 06825
(by appointment only)

Saddle Leather Cases

HANDCRAFTED IN ESTES PARK, CO



Slide your laptop or iPad into this handsome leather case and you'll discover "old school meets new school." The Pullman Case (shown) is designed to protect your electronics, charging cords, phone, paperwork and other necessities. Many styles available. We ship world-wide.



970.577.0892

www.skytoptrading.com

photoBUNDLE™

ALL OF OUR PHOTOGRAPHY
SOFTWARE AT
LESS THAN HALF PRICE



Visit **AlienSkin.com**
for beautiful examples
and a free trial.

"Successful people
make adjustments."

EVANDER HOLYFIELD

facebook.com/TheRealDealHolyfield

Photo © 2014 Herman Rodriguez

 **PortraitPro**



THE FASTEST, EASIEST
RETOUCHING SOFTWARE

"I love the ease with which I can use
your product to render outstanding
and realistic portrait images."

John W. Nelson, Portrait Professional user

EXTRA 10% OFF
CODE TF1179

Download Your Free Trial
www.PortraitPro.com

Camera Holster System



Exclusively for your DSLR!

Light-weight, compact holster means
you can leave that big heavy camera
bag in the car!

Complete 8-part system includes
RigidCase (tm) Camera Holster (with
belt loop), Detachable Lid, Adjustable
Shoulder Strap, Camera Retention
Strap, Accessory Pouch (for battery,
lens cloth, etc.), Lens Case, and
Filter Wallet (for two filters)

Log On - See the Video!
Skytop Trading
970 577-0892
Estes Park, Colorado



www.cameralholster.com

BosSTRAP

Generation 3 Sliding Sling Strap



Check our full
line of straps
and accessories
at BosStrap.com

All BosStraps Connect to the Camera
Strap Lug NOT to the Tripod Socket,
Features Quick Release Connector

www.BosStrap.com (508) 480-9762

LOCATION: SAN FRANCISCO
 Canon EOS-1D X with a 50mm f/1.2 lens, ISO
 6400, f/1.8 at 1/250 second.

AIR APPARENT

PHOTOGRAPHER VINCENT LAFORET'S
 HEART-STOPPING NIGHT FLIGHTS
 PRODUCE SPECTACULAR AERIAL IMAGES

By Jack Neubart

AWARD-WINNING PHOTOGRAPHER and filmmaker/director Vincent Laforet has observed the world from both sides now: on the ground and in the air. And these days, he much prefers shooting from an elevated perspective that is proving both challenging and exciting, with a hint of danger to spice things up. What is that element of danger? Flying thousands of feet up in an open helicopter—at night, no less. Strap yourselves in for a wild ride...

WHO IS VINCENT LAFORET?

The name Vincent Laforet is familiar to many of us for his groundbreaking short film “Reverie” from 2008, which showcased the virtues of the DSLR, specifically the Canon EOS 5D Mark II, as a tool for shooting high-definition movies, not merely still photos. Beyond

that, Laforet’s bold step into shooting video with a DSLR also reflects what we, as photographers, need to do to stay ahead of the curve, by reinventing ourselves at every opportunity.

This project may have launched his filmmaking career, but Laforet did not stop there. He continues to challenge himself.

Laforet’s time as a photojournalist with *The New York Times* garnered him a Pulitzer. When asked whether he considers himself first and foremost a photojournalist, fine art photographer, commercial photographer, or videographer, he responded: “All of the above, although I haven’t done photojournalism in five or six years. Any modern artist, these days, has to be able to multitask and to be multifaceted. The

two main ways I describe myself are as a filmmaker and photographer.”

TAKING TO THE AIR

“AIR” is what Laforet titles his current project, which is his most ambitious undertaking to date. For this series of images Laforet takes to the air in a helicopter at night, capturing major cities from an unprecedented miles-high perspective.

“I do fine art photography with the AIR series,” he explained. “I was pretty much ready to give up on the photography end of my career. This project pulled me back in.”

One might imagine that the famous helicopter scene in “Reverie” was the impetus to this venture. Not exactly.

“I got the bug when I was shooting for *The New York Times*, in the early 2000s, where they regularly sent me up in a helicopter on assignment, and it just became a specialty. So, by the time ‘Reverie’ happened, I was already somewhat known for my aerial photography.”

But actually this craving to capture the

world from a fresh perspective dates back almost 30 years. The AIR series began as a magazine assignment that took an odd turn, leading Laforet to post the images online, on a platform called Storehouse.

“The concept originated when I was 13 years old, flying into New York and looking out the aircraft window at the scene below. And I thought, wouldn’t it be amazing to photograph that from the air at night? I had to wait 27 years for the technology to catch up.” That technology turned out to be the latest Canon EOS cameras, with their ability to shoot virtually noise-free at high ISO levels and at higher and higher resolutions.

WORKING FROM A HELICOPTER

What kind of preparation is involved in a project such as this? “I work with Mike Isler, my first assistant and aerial coordinator, and some of the best pilots and helicopter charter companies. Air traffic control must be notified days in advance when you’re flying that high. We’re flying above what they call Class Bravo airspace, which is highly unusual for a helicopter and requires a bit of coordination.”

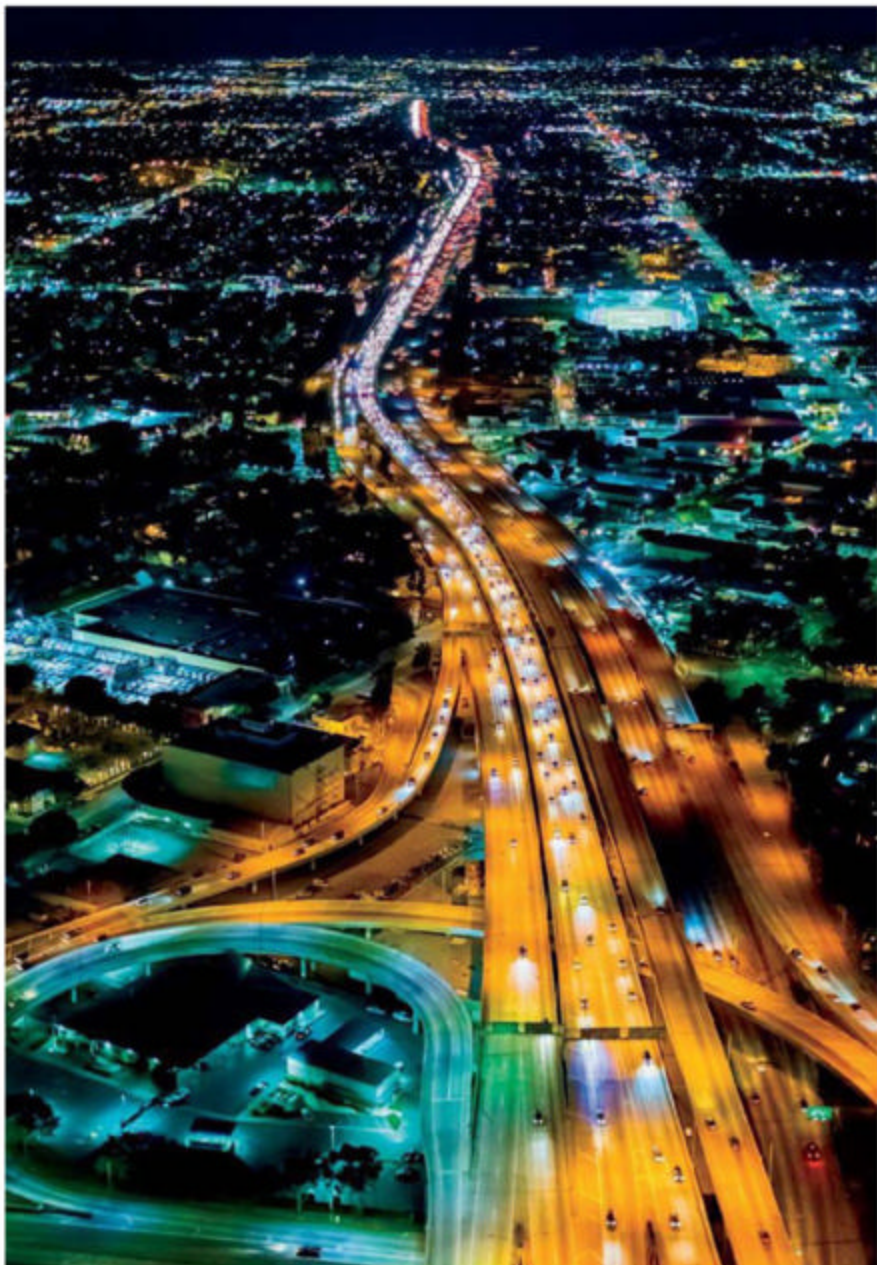
The helicopters Laforet mostly relies on are the AStar and Twinstar, “which are some of the best helicopters out there, with plenty of power, and they’re perfect in terms of shooting platforms.” Depending on the aircraft, Laforet takes the doors off or slides them back. “I’m in a full body harness, as is my assistant, and the gear is harnessed to me. Technically my legs are always outside of the helicopter from takeoff to landing. In rare circumstances, where we need to fly long distances, I close the door and stay inside, and then have to open up the door when it’s time to shoot, flopping my legs out over the skids for the entire shoot.” They generally take off just before sunset and remain in the air an hour and a half.

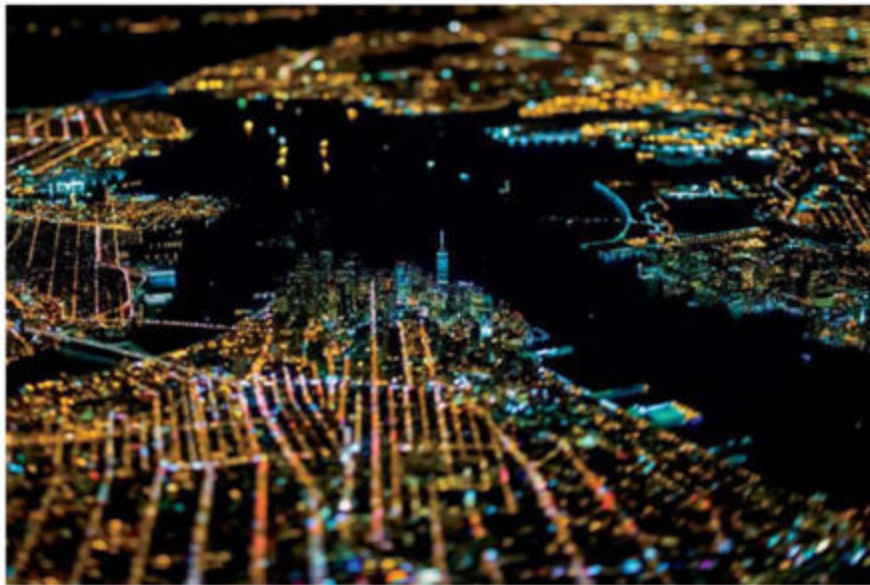
“We shoot at altitudes anywhere from 1,500 to 12,000 feet. The higher you go, the scarier it is because you have more time to think about it. It has been scary at times, never because anything has happened. When I was flying over Las Vegas, we had to climb to nearly 12,000 feet with oxygen. We flew up with the doors closed to reach that altitude faster. It’s an out-of-body experience to slide open a door in total darkness at that altitude above the desert and swing your legs out and start shooting.

LOCATION: LOS ANGELES
Canon EOS-1D X with a 50mm f/1.2 lens, ISO 6400, f/1.8 at 1/250 second.



LOCATION: SAN FRANCISCO
Canon EOS-1D X with a 135mm f/2 lens, ISO 6400, f/2 at 1/50 second.





LOCATION: NEW YORK
Canon EOS-1D X with a 45mm f/2.8 lens, ISO 3200, f/2.8 at 1/125 second.



LOCATION: NEW YORK
Canon EOS-1D X with a 135mm f/2 lens, ISO 3200, f/2 at 1/80 second.

You really have to trust that your harness is going to work.”

GEAR CHOICES

How much gear does Laforet typically fly with? “Quite a bit,” he said. “We bring two to three Pelican cases filled with gear, which includes 10 to 15 lenses, three camera bodies (which include the EOS-1D X and the new 5DS or 5DS R), and two Kenyon gyro stabilizers (www.ken-lab.com). And that’s what my first assistant is coordinating in the back (in the passenger section). We use everything from an 8-15mm lens all the way up to a 200mm f/2 (the only image-stabilized lens in the kit).

“We’re using the brightest prime lenses available and shooting them wide open, at

shutter speeds between 1/125 and 1/160 second, between ISO 1600 and 6400.” Keep in mind, he’s shooting at night, with the only illumination coming from below, unless there’s some moonlight. And he’s burning frames in Raw mode at the maximum burst rates that his Canon 1D X and 5D-series DSLRs can deliver. “Because of the vibration, we’re hoping to get 80 percent of our shots sharp.” All captures are recorded on two 128GB SanDisk cards per camera body. Focusing is entirely manual, in Live View.

WHAT’S NEXT

Laforet has already photographed New York City, Las Vegas, San Francisco, Chicago, and Los Angeles for this project.



Courtesy of Canon U.S.A., Inc.

VINCENT LAFORET’S FAVORITE CAMERA

“The Canon EOS 5DS is one of my favorite 35mm-style camera bodies that I’ve ever used,” Laforet raves about the new 50.6MP full-frame DSLR. “You don’t just get the superior resolution; you actually get the benefit of greater color depth because of the resolution and the sensor. That combined with the 11-24mm lens is one of the most amazing combinations I’ve seen.”



LOCATION: LAS VEGAS
Canon EOS-1D X with a 45mm f/2.8 lens, ISO 6400, f/2.8 at 1/200 second.

“I shoot almost every city twice. It’s hard to capture the entire city in one flight. It’s a very expensive thing to do, but it makes sense.”

From here he moves on to Europe and Asia. “I’m really looking forward to Paris—that’s where I’m from.” In fact, why stop there? One might say that the world is Vincent Laforet’s oyster, for him to capture as no one has done before.

The continuation of this epic adventure is being sponsored by G-Tech (www.g-technology.com), known for their professional external storage solutions. There’s also a book and set of postcards, available on www.laforetair.com, where you’ll find the AIR galleries, videos, and more.

Laforet concluded: “This is a once-in-a-lifetime experience and opportunity. We all have plans for our lives, and life has a way of telling you which direction to follow. This is one of those cases. And I’m incredibly excited to share this project and to discover these cities around the world. I feel that it’s an incredible privilege.” ■



The Smarter Way to Buy and Sell

WHY BUY NEW
WHEN YOU CAN
SAVE MORE
AND BUY USED?

GET HIGH-QUALITY USED CAMERA GEAR
AT GREAT PRICES **40% BELOW** RETAIL!

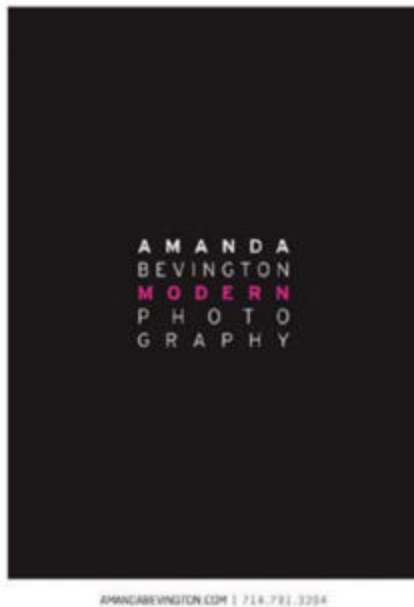
At **KEH Camera** we have the largest selection of
photography equipment — all certified, inspected and fully
warranted by our experts.

SHOP WITH US TODAY

Give us a call: **1-800-342-5534** | Visit us online: **www.keh.com**

HOW TO BRAND YOURSELF AS A PHOTOGRAPHER

MAKING A NAME FOR YOURSELF WILL HELP YOU MAKE SALES *By Maria Piscopo*



WHILE BRANDING MIGHT NOT BE AS SEXY a topic as fashion or travel photography, it's a critical element to making your photography business a success. Fortunately, we have a good group of educated and experienced photographers to help bring us up to date on what branding is, how to create it, mistakes to avoid, and why it's so important to your business. Bottom line? Marketing your photography with a strong brand message will give you a competitive edge and get you paid what you are worth. I want to thank my patient contributors for sharing their knowledge and lessons with us: Casey Bevington, Matthew Dutile, Andrew Fingerman at PhotoShelter, Karen Hirsch, Giulio Sciorio, Beth Taubner at MercuryLab, and Daniel Waters at Get Pro Photo. They gave so many good ideas and tips that you will want to take notes!

Q: What is a "personal brand" and why is this important or necessary for photographers?

BETH TAUBNER: All brands are personal because they are based either on an individual or a company's belief system or psychology. This belief system is at the root of who they are, what they do, how they approach their work, and additionally in the case of photographers, the images they make and take. Brands are based on mixtures of facts (e.g., a still life photographer with finely honed lighting

skills) married with attributes, traits, personality, and characteristics (e.g., romantic, ethereal, dynamic). Every brand is constructed this way.

It's important to have a differentiated brand because it enables the photographer to have a clearly articulated set of guidelines to use internally as a touchstone for how they run their business and for the images that they create. It becomes a clear kind of North Star that they can follow to help them create work that separates them from their competitors. A clearly articulated brand

will also provide the external focus for their brand that they can then apply to all of their marketing and communications activities—portfolio, website, marketing pieces, social media, how they speak and write about the brand. A clear brand is like a visceral one-liner—this is what we want our audiences to be able to conjure up when they think about us, or see our work. It's also a useful one-liner to use when we speak to ourselves, and can be a very powerful call to action.

DANIEL WATERS: A brand is the emotional response, or feeling, people have when using or thinking about your service. Photography is a service industry with an enormous amount of client interaction. You are the business. You're not a faceless corporation. It's all about you. How you interact with clients, how you look, and how you treat people are all critical to your brand. Ultimately your brand is your personality.

Your brand is critical because people hire people they like (and trust) and people who are like them. There are lots of talented photographers in every neighborhood. One of the key ways you can separate yourself from the competition is through your brand—your personality. Most types of photography are highly emotional purchases. A couple won't hire a wedding photographer if they don't feel their personalities and sensibilities fit. People will pay significantly more for a photographer they like and trust, even if another photographer is more talented but a poor "fit." Think about two builders quoting you for an extension. One is scruffy and surly and doesn't take their shoes off when entering the house. They don't write down anything you say and seem rather uninterested. The other builder is more smartly dressed, shows you their ID badge, takes their shoes off, makes notes, takes photographs, asks questions, smiles, and says please and thank you. Would you be prepared to pay more for the second builder?

ANDREW FINGERMAN: For photographers, a personal brand goes way beyond basic marketing elements like a logo, website design, or well-designed promotional materials. A brand is really the personality or essence of your business. It's about who you are and how you communicate your strengths and specialties to your market. Your brand consists of your photographic style, your voice, your aesthetic, and most importantly, the feeling that you leave with clients when they work with you.

Although we're now living in a visual world, where photo and video assets are

treasured by companies and media as the most compelling way to engage with an audience, it's still a "buyer's market" for photographic talent. For clients and prospects, strong photographers are easy to find, and there's often a less experienced, less expensive option waiting to take your spot. So, while standing out on talent alone would be nice, it's not enough, and a strong personal brand can help professional photographers distinguish themselves to clients or prospects.

A strong brand will make you money and enable you to command a premium from clients. Try this exercise: If you're the brand manager at a leading skiwear manufacturer, would you rather hire "the top outdoor adventure photographer in the world" or "a very capable photographer with a good outdoor photography portfolio"? Behold, the power of branding.

Q: What are the pitfalls or mistakes to watch for when gearing up for brand promotion?

BETH TAUBNER: There seem to be three major issues. First, not having a yearly marketing promotion budget. I encourage my clients to set aside a monthly sum and put it into a marketing savings account so that they won't feel the pinch of having to come up with a big sum of money all of a sudden to pay for a mailing or sourcebook ad. Promotion must be done on a regular schedule in order to work. Secondly, they tend to panic three to six months into the marketing cycle. It can take a year to 18 months to gain any traction from a specific marketing campaign so don't panic! Hang in there! Thirdly, integrated marketing is the way to go—not single-channel marketing. It's impossible to determine which client is going to be motivated by what kind of promotion—some respond to digital, some to social media, some to physical pieces—so it's important to develop an integrated plan that is related in execution—not necessarily identical, but clearly part of the same system and campaign.

DANIEL WATERS: Ninety percent of photographers feel that if they have a cool logo, lovely photographs, and a professional-looking website then that's enough. Branding isn't only about logos, color palettes, and straplines. It's about injecting your personality into everything you do so that people have an emotional connection with your business. It's everything, including the little details like writing thank you cards, remembering anniversaries, listening, and caring.



Too many photographers copy each other. Their websites all look the same, they don't explain what makes them different and they don't define their target market. They try to be all things to all people and end up appealing to no one. When no one calls them, they use price to differentiate themselves and this is the beginning of the end. Again, words are the currency of persuasion. Very few websites have enough words on them. People will read your website if it's helpful, interesting, and full of personality. These words help prospects feel like they know you and makes them much more likely to get in touch.

MATTHEW DUTILE: Nothing falls apart quicker than half-assed or cobbled together branding. You can tell it when you see it. For instance, if you hand me a business card I should be able to find the same typeface or style on your website. You don't want to present one thing and then show a completely different format in another medium. Same goes for e-mail promotions, direct mail, and portfolios. Cohesion is king.

ANDREW FINGERMAN: When considering true marketing campaigns, like e-mail blasts and direct mail drops, the biggest pet peeve we hear from would-be clients is that the gunshot approach doesn't work, and wastes time (and paper) for both the photographer and prospect. Firing promos to every buyer possible, without regard to relevance and what that buyer may need, is a losing proposition. In other words, don't send your promo featuring still life images of consumer products to the editor of a luxury travel magazine. You'll see much greater success if you invest the time and

effort to make sure the audience you're targeting is a match for your specialty, subject matter, style, or location.

Q: What are the best ways for photographers to promote their brand?

KAREN HIRSCH: Be consistent with the logo, color scheme, and font for when communicating with your client. From stationery to business cards, blogs, websites, direct mail pieces, flyers, etc., have a catchy tag line that pervades your marketing materials. Choose a domain name that defines your brand whether it is your name or what you do. For your URL, select keywords that correspond to you and your photography—e.g. Dallasphotographer.com, dogfriendlypix.com. Use keywords in your copy on your website. Use keywords in your text that define your brand. Think about where your clients would hang out and get in with them. An architectural photographer can get a table at a trade show for architects or building contractors. Participate in networking groups in person or online. Write articles and give presentations that show your expertise in your specialty by sharing information or stories such as "Five Things to Do to Prepare for Your Photo Session," or "How I Got the Photo of the Pope with Madonna." Become the go-to guy for reporters and editors when they need information or a quote about your specialty. Go to photo conferences like PhotoPlus Expo, FOTOfusion, and the Palm Springs Festival where you can meet the editors and curators at portfolio reviews. Sponsor events where your clients will be in attendance. Make alliances

Nautical Images



Karen I. Hirsch
PHOTOGRAPHY

with other businesses that cater to your audience and do joint promotions.

DANIEL WATERS: Everything you say and write to promote your business must support your brand image. For example, you can't promote yourself on quality if you're cheap. The most critical ingredient for promoting your brand is words, both written and spoken. You can't demonstrate what your brand is if you don't communicate. Beautiful photographs aren't enough. Your words are what set you apart from the competition. They need to be injected with emotion, enthusiasm, and sincerity, plus some distinct reasons why someone should choose you over another photographer. For example, my money-back guarantee makes me unique in my area. However, I don't just say "I offer a money-back guarantee." That's boring and devoid of sincerity. I say, "I understand how important your wedding photographs are to you and that it's hard to choose the right photographer. That's why I'm the only photographer in the area who offers a written guarantee that if you don't love your photographs and the service you receive then I'll give you all your money back. That's how much I care about creating images you'll really treasure. If you're not thrilled then I don't deserve to be paid."

CASEY BEVINGTON: The biggest social media misconception is that it's all about building up the largest number of followers possible, when, in fact, quality of followers is the key, not quantity. You want 10 of the right people following you, rather than 1,000 of the wrong ones. The way to do this is to consistently post high-quality content, unique to each social media channel. Just like big brands and magazines do, create an editorial calendar for each social media channel (Instagram, Facebook, Twitter) and stick to it. Rather than posting the same thing on all

channels, create unique posts tailored toward each one. Instagram is great for strong, individual images and encouraging social interaction. Facebook is good for sharing a series of photos, as an album, and encouraging people to share those on their feeds.

GIULIO SCIORIO: Work is something you do, art is something you live. How I dress, the music I listen to, my home life, how I talk, even my wife is part of my personal brand. All those parts of my life feed my art directly and are part of my personal brand. Incorporate your personal brand into products you use and give away such as business cards, T-shirts, and stickers. Get the highest quality or don't bother. Work with a professional designer. Having a thin and poorly designed business card says something completely different from a well-designed card printed on premium stock. I tie everything into a branding guide that I send out to press and potential clients with my logos, how to use my logos, bio in various length, headshots, and various social media links.

MATTHEW DUTILE: Photographers are really finding different ways to make it work based on their personalities. Some are pulling down jobs through Instagram posts, others through great direct mail marketing, some through elusive meetings, and a whole host of ways. Whatever you decide to do, do it as best as it can be done—that's the only rule these days. There are so many communication vehicles. It's a great time to be an artist and to have the myriad of outlets to express your vision.

ANDREW FINGERMAN: This is important. Every single touch point—every possible point of interaction with a client—should be considered an opportunity to promote your brand. Grab a pen and paper and map this out. How do people first learn about or engage with your content (perhaps social

media, perhaps at an event)? What do they look at to evaluate services like yours? What do they do after they make that choice (proposal/contract)? How do you interact mid-project? How do you wrap up the project and deliver finished content? I bet you can come up with several ways to make your approach unique, or even ways to improve on the commonly accepted ways things get done. Choose the improvements you feel will have the biggest impact on your brand and test them out.

For example, if you're a wedding photographer, how do you package and deliver the final album and prints? Is the handoff experience, and the product itself, something that your client will want to tell their friends about? I hope so! Better yet, will they take a picture and post that to social media?

Your blog (and other blogs you might contribute to) also offer an outstanding tool for brand promotion. With a blog, you have the ability to tell the "story behind the story"—where you can showcase your brand in action. Blogging about projects also becomes a pedestal for demonstrating your professionalism, your problem-solving ability, your sense of humor, or your mastery of a subject. ■

mercurylab
case study #163: photography
Chris Crocyer



RESOURCES

CASEY BEVINGTON: caseybevington365.wordpress.com
MATTHEW DUTILE: mattdutile.com
ANDREW FINGERMAN: photoshelter.com
KAREN HIRSCH: karenihirsch.com
GIULIO SCIORIO: giuliosciorio.com
BETH TAUBNER: mercurylab.com
DANIEL WATERS: getprophoto.com

800.947.9960
212.444.6660
Fax: 212.239.7770

420 Ninth Avenue
Corner of 34th St.
New York, N.Y 10001

Hours of Operation
Sun 10-5 | Mon-Thurs 9-7
Friday 9-1 EST | 9-2 DST
Closed Saturday



The Professional's Source®

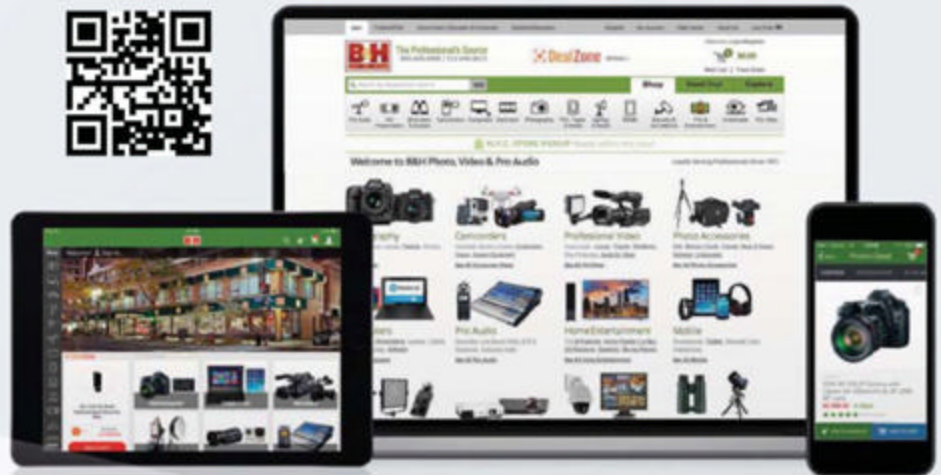
Over 400,000 products, at your leisure
www.BandH.com

B&H Online

- Find it fast!
- Shop securely
- Pickup at our SuperStore
- Free Expedited Shipping
- Live Chat with Pros
- User Photos, 3D Demos
- Engaging Educational Videos
- Learn and Discover



www.bandh.com



Our Mobile APP

Our NYC SuperStore

SuperStore

When in
New York City,
**Visit our
SuperStore**

- Over 70,000 square feet of the latest gear
- The most knowledgeable Sales Professionals
- Hands-on demos

FREE EXPEDITED SHIPPING
on orders over \$49 (in the continental US)

Prices, specifications, and images are subject to change without notice. Manufacturer rebates are subject to the terms and conditions (including expiration dates) printed on the manufacturers' rebate forms. FREE EXPEDITED SHIPPING on orders over \$49* (in the continental US). *Some restrictions may apply; see website for details. Not responsible for typographical or illustrative errors. © 2000-2015 B & H Foto & Electronics Corp. NYC DCA Electronics Store Lic. #0906712; NYC DCA Electronics & Home Appliance Service Dealer Lic. #0907905; NYC DCA Secondhand Dealer - General Lic. #0907906



The Professional's Source®

www.BandH.com

Visit Our Superstore

420 Ninth Ave.

Corner of 34th Street
New York, N.Y. 10001

Hours: Sun. 10-5 • Mon.-Thurs. 9-7
Fri. 9-1 EST/9-2 DST • Sat. Closed



- Over 70,000 square feet of the latest gear
- The most knowledgeable Sales Professionals
- Hands-on demos
- Convenient free parking available

Speak to a Sales Professional

800-947-9960

212-444-6660

Fax:
212-239-7770



Check our website for the most current pricing | www.BandH.com

0815



16 MP

FUJIFILM X-T1

Mirrorless Camera

- Weather-Resistant Body Construction
- Uses Fujifilm X Mount • SDHC/SDXC Card Slot
- 3.0" LCD • 8 fps Shooting • Built-In Wi-Fi
- Full HD 1080p Video Recording at 60 fps

Body Only #FXT1B

with 18-55mm Lens #FXT11855B



16 MP

OLYMPUS OM-D E-M1

Mirrorless Camera

- Micro 4/3 System • Full HD 1080p Video
- 3.0" Tilting LCD Touchscreen
- SDHC/SDXC Card Slot • Built-In Wireless
- 10 fps and 1/8000 sec. Top Shutter Speed
- Dust/Splash/Freezeproof Magnesium Alloy Body

Body Only #OLEM1



16 MP

OLYMPUS OM-D E-M5 II

Mirrorless Camera

- Micro 4/3 System • Full HD 1080i Video
- 3.0" Tilting Monitor • 10 fps Shooting
- SDHC/SDXC Card Slot • Built-In Wi-Fi
- Dust and Splashproof Construction
- Available in Black or Silver

Body Only #OLOMDEM5*



16 MP

OLYMPUS OM-D E-M10

Mirrorless Camera

- Micro 4/3 System • 8 fps Shooting
- 3.0" Tilting Touchscreen LCD
- SDHC/SDXC Card Slot • Built-In Wi-Fi
- Full HD 1080p Video Recording at 30 fps
- Available in Black or Silver

with 14-42mm Lens #OLEM101442*



16 MP

FUJIFILM X-E2

Mirrorless Camera

- Uses Fujifilm X Mount Lenses • 3.0" LCD
- SDHC/SDXC Card Slot • 7 fps Shooting
- Full HD 1080p Video Recording at 60 fps
- Built-In Wi-Fi • Available in Black or Silver

Body Only #FUXE2*

with 18-55mm Lens #FUXE21855*



14 MP

Nikon 1 AW1

Mirrorless Camera

- SD, SDHC, SDXC Card Slot
- Uses Nikon 1 Lenses • 3.0" LCD
- Water, Shock, Dust & Freezeproof Design
- Full HD 1080i Video Recording at 60 fps
- Available in Black, Silver or White

with 11-27.5mm Lens #N1AW111275*



20 MP

Nikon 1 J5

Mirrorless Camera

- EXPEED 5A Image Processor • Built-in Wi-Fi
- microSDHC/SDXC Card Slot • 60 fps Shooting
- Uses Nikon 1 Lenses • 3" Tilting Touchscreen LCD
- UHD 2160p/15 and Full HD 1080p/60 Video
- Available in Black, Silver or White

with 10-30mm Lens #N1J51030*



18 MP

Nikon 1 V3

Mirrorless Camera

- EXPEED 4A Image Processor • Built-In Wi-Fi
- Uses Nikon 1 Lenses • microSDHC/SDXC Card Slot • 3.0" Tilting Touchscreen LCD
- Movie e-VR Stabilization • 20 fps Shooting
- Full HD 1080p Video Recording at 60 fps

with 10-30mm Lens #N1V31030

FUJIFILM

Mirrorless System Lenses

14/2.8 XF R.....	899.00	60/2.4 XF Macro.....	649.00
18/2.0 XF R.....	599.00	10-24/4 XF R OIS.....	999.00
23/1.4 XF R.....	899.00	16-50/3.5-5.6 XC OIS.....	399.00
27/2.8 XF.....	449.00	18-55/2.8-4 XF R OIS.....	699.00
35/1.4 XF R.....	599.00	55-200/3.5-6.3 ED OIS.....	699.00
56/1.2 XF R.....	999.00	50-230/4.5-6.7 XC OIS.....	399.00

SAMSUNG

Mirrorless System Lenses

10/3.5 Fisheye.....	CALL	12-24/4-5.6 E.....	CALL
16/2.4 Pancake.....	CALL	16-50/3.5-5.6 ED OIS.....	CALL
20/2.8 Pancake.....	CALL	16-50/2-2.8 S ED OIS.....	CALL
30/2.0 NX Pancake.....	CALL	18-55/3.5-5.6 OIS.....	CALL
45/1.8.....	CALL	18-200/3.5-6.3 ED OIS.....	CALL
45/1.8 [T6] 2D/3D.....	CALL	20-50/3.5-5.6 ED II.....	CALL
60/2.8 Macro ED OIS SSA.....	CALL	50-200/4-5.6 ED OIS II.....	CALL
85/1.4 ED SSA.....	CALL		

Panasonic

Lumix G Vario Mirrorless System Lenses

8/3.5 Fisheye.....	549.00
14/2.5 Aspherical.....	397.95
15/1.7 Aspherical Leica DG Summilux.....	597.99
20/1.7 II Aspherical.....	427.99
25/1.4 Aspherical Leica DG Summilux.....	597.99
42.5/1.2 Aspherical Power OIS Leica DG Noctillon.....	1,597.99
45/2.8 Aspherical Mega OIS Leica DG Macro-Elmarit.....	897.99
7-14/4.0 Aspherical.....	949.95
12-32/3.5-5.6 Aspherical.....	347.99
12-35/2.8 X Aspherical.....	997.99
35-100/2.8.....	1,497.99
14-42/3.5-5.6 Aspherical Mega OIS.....	164.95
14-42/3.5-5.6 X PZ Power OIS (Silver).....	316.00
14-45/3.5-5.6 Aspherical Mega OIS.....	289.00
14-140/4.0-5.8 HD Aspherical Mega OIS.....	399.00
14-140/3.5-5.6 Aspherical Power OIS.....	559.00
45-150/4-5.6 Aspherical.....	249.00
45-175/4-5.6 X OIS.....	379.00
45-200/4-5.6 OIS.....	269.00
100-300/4.0-5.6 OIS.....	597.99

OLYMPUS

Flash System

FL-300R Flash.....	136.95	FL-600R Flash.....	299.95
FL-50R Flash.....			499.95
RF-11 Ring Flash.....	249.95	TF-22 Twin Flash.....	449.95
SRF-11 Ring Set.....	559.95	STF-22 Twin Flash Set.....	739.95

M.Zuiko Micro 4/3 Mirrorless Lenses

9mm f/8.0 Fisheye Body Cap Lens.....	99.00
15mm f/8.0 Fisheye Body Cap Lens.....	49.00
12/2.0 (46e).....	799.00
17/2.8 (37e).....	299.00
17/1.8 (46e).....	499.00
25/1.8 (46e).....	399.00
45/1.8 (37e).....	399.00
60/2.8 Mac ED (46e).....	499.00
75/1.8 ED (58e).....	899.00
75-300/4.8-6.7 II ED (58e).....	549.00
9-18/4.0-5.6 (52e).....	699.00
12-40/2.8 Pro ED (62e).....	999.00
12-50/3.5-6.3 ED EZ (52e).....	499.00
14-42/3.5-5.6 EZ ED (37e).....	349.00
14-42/3.5-5.6 II R (37e).....	299.00
14-150/4-5.6 (58e).....	599.00
40-150/4-5.6 ED R (58e).....	199.00

PENTAX

AF Flash System

AF-360FGZ.....		AF-540FGZ II.....	
----------------	--	-------------------	--

DA Digital AF Lenses

15/4.0 ED AL HD Limited (49e).....	70/2.4 HD Limited (49e).....
14/2.8 ED IF (77e).....	200/2.8 ED IF SDM.....
21/3.2 AL Limited (49e).....	300/4.0 ED IF SDM (77e).....
35/2.4 (49e).....	560/5.6 ED AW (112e).....
40/2.8 Limited (49e).....	10-17/3.5-4.5 ED IF (77e).....
35/2.8 Macro HD Limited (49e).....	12-24/4 ED AL IF (77e).....
40/2.8 HD Limited (49e).....	16-50/2.8 ED AL SDM (77e).....
50/1.8 (52e).....	17-70/4.0 AL IF SDM (67e).....
55/1.4 SDM (58e).....	18-55/3.5-5.6 AL WR (52e).....
18-135/3.5-5.6 ED AL (IF) DC WR (62e).....	
18-270/3.5-6.3 ED SDM (62e).....	
20-40/2.8-4 HD Limited ED DC WR (55e).....	
50-135/2.8 ED SDM (67e).....	55-300/4-5.8 HD ED WR (58e).....
50-200/4-5.6 ED WR (52e).....	60-250/4.0 ED IF SDM (67e).....

"FA" AF Lenses for 35mm & Digital SLRs

31/1.8 Limited.....	50/1.4 (49e).....
35/2.4 AL (49e).....	50/2.8 Macro (52e).....
43/1.9 Limited (49e).....	77/1.8 Limited (49e).....
100/2.8 D FA WR Macro (49e).....	

Nikon

Nikon 1 Mirrorless Lenses

10/2.8 AW.....	196.95	10-30/3.5-5.6 VR PD.....	296.95
10/2.8.....	246.95	10-100/4.0-5.6 VR.....	546.95
18.5/1.8.....	186.95	11-25/3.5-5.6 AW.....	146.95
32/1.2.....	896.95	11-27.5/3.5-5.6.....	186.95
6.7-13/3.5-5.6 VR.....	496.95	30-110/3.8-5.6 VR.....	246.95
10-30/3.5-5.6 VR.....	186.95	70-300/4.5-5.6 VR.....	996.95

SONY

Flash System

HVL-F20M.....	149.99	HVL-F43M.....	398.00
HVL-F20S.....	149.99	HVL-F60M.....	548.00

E-Mount Mirrorless Lenses

16/2.8 (49e).....	248.00	10-18/4.0 OSS (62e).....	848.00
20/2.8 (49e).....	348.00	16-35/2.8 ZA SSM (77e).....	1,998.00
24/1.8 (49e).....	1,098.00	16-50/3.5-5.6 OSS (40.5e).....	348.00
30/3.5 Mac (49e).....	278.00	16-70/4 ZA OSS (55e).....	998.00
35/1.8 OSS (49e).....	448.00	18-55/3.5-5.6 (49e).....	298.00
35/2.8 ZA (49e).....	798.00	18-105/4 G OSS (72e).....	598.00
50/1.8 OSS (49e).....	298.00	18-200/3.5-6.3 (67e).....	898.00
55/1.8 ZA FE (49e).....	998.00	18-200/3.5-6.3 OSS (62e).....	848.00
18-200/3.5-6.3 PZ OSS (67e).....			1,198.00
24-70/4 ZA OSS (67e).....	1,198.00	55-210/4.5-6.3 OSS (49e).....	348.00
28-70/3.5-5.6 OSS (55e).....	498.00	70-200/4.0 G OSS (72e).....	1,498.00

Digital Lenses

16/2.8 Fish-eye.....	998.00	11-18/4.5-5.6 DT (77e).....	798.00
20/2.8 (72e).....	748.00	16-35/2.8 ZA SSM (77e).....	1,998.00
24/2 Carl Zeiss (72e).....	1,398.00	16-50/2.8 DT (40.5e).....	798.00
30/2.8 DT Macro (49e).....	198.00	16-80/3.5-4.5 DT (62e).....	998.00
35/1.4 G (55e).....	1,498.00	16-105/3.5-5.6 DT (62e).....	698.00
35/1.8 DT (55e).....	218.00	18-55/3.5 DT SAM II (55e).....	218.00
50/1.8 DT (49e).....	168.00	18-135/3.5-5.6 (62e).....	498.00
50/1.4 (55e).....	448.00	18-250/3.5-6.3 DT (62e).....	648.00
50/1.4 Carl Zeiss ZA (72e).....	1,498.00	24-70/2.8 Carl Zeiss (77e).....	1,998.00
50/2.8 Mac (55e).....	598.00	28-75/2.8 (67e).....	898.00
85/2.8 (55e).....	298.00	55-200/4.0-5.6 DT (55e).....	198.00
85/1.4 Carl Zeiss (72e).....	1,698.00	55-300/4.5-5.6 DT (62e).....	298.00
100/2.8 Macro (55e).....	798.00	70-200/2.8 G SSM II (77e).....	2,998.00
135/1.8 Carl Zeiss (77e).....	1,798.00	70-300/4.5-5.6 G (62e).....	998.00
135/2.8 STF (72e).....	1,398.00	70-400/4.5-6.3 G2.....	2,198.00
300/2.8 G APO II (42eR).....	7,498.99	1.4x Teleconverter.....	548.00
500/4 G (42eR).....	12,998.00	2x Teleconverter.....	548.00

B&H
In the
palm
of your
hand



Holiday Schedule

July 26
Closed

Cash in or Trade up

We Buy, Sell,
and Trade
**Used
Equipment**



The Professional's Source®

www.BandH.com

0815

FREE EXPEDITED SHIPPING On orders over \$49.00

16
MP

Panasonic Lumix DMC-GM5

Mirrorless Camera

- Highly Compact Magnesium Alloy Body
- Micro 4/3 System • Venus Engine Image Processor
- SDHC/SDXC Card Slot • Built-in Wi-Fi • 3.0" LCD
- Full HD 1080p Video at 60 fps • MEGA O.I.S. and Contrast-Detection AF • Available in Black or Red

with 12-32mm Lens #PADMCGM5K*

16
MP

Panasonic Lumix DMC-GX7

Mirrorless Camera

- Micro 4/3 System • 3" Tilting Touchscreen LCD
- SDHC/SDXC Card Slot • 90° Tilting EVF
- Full HD 1080p AVCHD Video at 60 fps
- Built-In Wireless and NFC Connectivity
- Available in Black or Silver

with 14-42mm II Lens #PADMCGX7K*

16
MP

Panasonic Lumix DMC-GH4

4K Mirrorless Camera

- DCI 4K 4096x2160 at 24p • Full HD up to 60p
- UHD 4K 3840x2160 at 30p/24p • 3.0" LCD
- 4:2:2 8-Bit or 10-Bit HDMI Output
- Support for 59.94p, 23.98p, 50p, & 24p
- Magnesium Alloy, Weather-Sealed Body

Body Only #PADMCGH4*

23
MP

PENTAX K-3

DSLR Camera

- 3.2" LCD • 8.3 fps Shooting
- Pentax K Lens Mount • Dual SD Card Slots
- In-Camera Shake Reduction Stabilization
- Full HD 1080i/p Video Recording
- Weather-Sealed Magnesium Alloy Body

Body Only #PEK3

24
MP

SONY Alpha A6000

Mirrorless Camera

- 3.0" Tilting LCD • Uses Sony E-mount Lenses
- SDHC, SDXC, MS Pro Duo/HG Duo Card Slot
- Up to 11 fps Shooting • ISO 25600
- Full HD 1080i/p AVCHD Video at 24/60 fps
- Built-In Wi-Fi • Available in Black or Silver

Kit with 16-50mm OSS Lens #SOA6000*

24
MP

SONY Alpha A7 II

Mirrorless Camera

- Full Frame Exmor CMOS Sensor • 3.0" Tiltable LCD
- SDHC, SDXC, MS Pro Duo/HG Duo Card Slot
- Uses Sony E-mount Lenses • Built-In Wi-Fi
- Full HD XAVC S Video & S-Log2 Gamma
- Weather-Resistant Magnesium Alloy Body

Body Only #SOA72

Kit with 28-70mm OSS Lens #SOA72K

20
MP

SONY Alpha SLT-A58

DSLR Camera

- 2.7" Tilting LCD • Uses Sony A-mount Lenses
- SDHC, SDXC, MS Pro Duo/HG Duo Card Slot
- Full HD 1080i/p Video at 60 or 24fps
- SteadyShot INSIDE Image Stabilization
- ISO 100-16000 with Noise Reduction

DT 18-55mm SAM II Lens #SOSLA58K

24
MP

SONY a77 II

DSLR Camera

- 3.0" 3-Way Tilting LCD • 12fps Shooting
- Uses Sony A-mount Lenses • Built-In Wi-Fi
- Full HD 1080p Video Recording at 60 fps
- SDHC, SDXC, MS Pro Duo, MS PRO HG Duo, XC-HG Duo Card Slot

Body Only #SOA772

ZEISS

These fully-compatible lenses with autofocus expand the capabilities of both the Sony NEX and Fujifilm X camera systems with outstanding optical quality.

Touit Mirrorless Lenses	Fujifilm X	Sony NEX	Price
12mm f/2.8 (67°)	#ZET2812X	#ZET2812E	999.00
32mm f/1.8 (52°)	#ZET1832X	#ZET1832E	720.00
50mm f/2.8M (52°)	#ZET5028MX	#ZET5028ME	999.00

SIGMA

H HSM Model with Canon, Nikon, Sigma R Rear Slip-in Gelatin Filter Slot

DC for Digital SLRs Only				DG Optimized for Digital SLRs				DN Designed for Mirrorless Cameras			
C = Canon	MFT = Micro 4/3	N = Nikon	O = Olympus	P = Pentax	SI = Sigma	SA = Sony Alpha	SE = Sony E	C = Canon	MFT = Micro 4/3	N = Nikon	O = Olympus
Price After Rebate				Rebate Exp. 6-30-15				Price			
DC	DG	DN	Mount	SKU #	Rebate	Price	DC	DG	DN	Mount	SKU #
4.5mm f/2.8 EX Circular Fisheye HSM*	C, N, P, SI, SA	#SI4526EX*				899.00	4.5mm f/2.8 EX Circular Fisheye HSM*	C, N, P, SI, SA	#SI4526EX*		
8mm f/3.5 EX Circular Fisheye*	C, N, SI, SA	#SI835*			\$50	849.00**	8mm f/3.5 EX Circular Fisheye*	C, N, SI, SA	#SI835*		
10mm f/2.8 EX Fisheye HSM*	C, N, SA	#SI1028EXD*				649.00	10mm f/2.8 EX Fisheye HSM*	C, N, SA	#SI1028EXD*		
15mm f/2.8 EX Diagonal Fisheye*	C, N, P, SA	#SI1528DG*				609.00	15mm f/2.8 EX Diagonal Fisheye*	C, N, P, SA	#SI1528DG*		
19mm f/2.8 (46°) Black or Silver	MFT, SE	#SI1928DN*				199.00	19mm f/2.8 (46°) Black or Silver	MFT, SE	#SI1928DN*		
20mm f/1.8 EX DF RF Aspherical (82°)	N	#SI2018NFA*				549.00	20mm f/1.8 EX DF RF Aspherical (82°)	N	#SI2018NFA*		
24mm f/1.8 EX DF Asph. Macro (77°)	C	#SI2418MCAF*				499.00	24mm f/1.8 EX DF Asph. Macro (77°)	C	#SI2418MCAF*		
28mm f/1.8 EX DF Asph. Macro (77°)	C	#SI2818MCAF*				449.00	28mm f/1.8 EX DF Asph. Macro (77°)	C	#SI2818MCAF*		
30mm f/2.8 (46°) Black or Silver	MFT, SE	#SI3028DN*				199.00	30mm f/2.8 (46°) Black or Silver	MFT, SE	#SI3028DN*		
30mm f/1.4 HSM (62°)	C, N, P, SI, SA	#SI3014DHCHSM*				499.00	30mm f/1.4 HSM (62°)	C, N, P, SI, SA	#SI3014DHCHSM*		
35mm f/1.4 HSM (67°)	C, N, P, SI, SA	#SI3514*				899.00	35mm f/1.4 HSM (67°)	C, N, P, SI, SA	#SI3514*		
50mm f/1.4 EX HSM (77°)*	C, N, SA	#SI5014*			\$100	399.00**	50mm f/1.4 EX HSM (77°)*	C, N, SA	#SI5014*		
50mm f/1.4 HSM (77°)*	C, N, SI, SA	#SI5014A*				949.00	50mm f/1.4 HSM (77°)*	C, N, SI, SA	#SI5014A*		
50mm f/2.8 EX Macro (55°)	C, N	#SI5028MDG*				349.00	50mm f/2.8 EX Macro (55°)	C, N	#SI5028MDG*		
60mm f/2.8 (46°) Black or Silver	MFT, SE	#SI6028DN*			\$30	209.00**	60mm f/2.8 (46°) Black or Silver	MFT, SE	#SI6028DN*		
70mm f/2.8 EX Macro (62°)	C, N, P	#SI7028MDG*				449.00	70mm f/2.8 EX Macro (62°)	C, N, P	#SI7028MDG*		
85mm f/1.4 EX HSM (77°)	C, N, P, SI, SA	#SI8514*				969.00	85mm f/1.4 EX HSM (77°)	C, N, P, SI, SA	#SI8514*		
105mm f/2.8 EX Macro OS HSM (62°)	C, N, SI, SA	#SI10528MDG*			\$300	669.00**	105mm f/2.8 EX Macro OS HSM (62°)	C, N, SI, SA	#SI10528MDG*		
150mm f/2.8 EX APO Macro OS HSM (72°)	C, N, SI, SA	#SI15028AMO*				1,099.00	150mm f/2.8 EX APO Macro OS HSM (72°)	C, N, SI, SA	#SI15028AMO*		
180mm f/2.8 EX APO Macro OS HSM (86°)	C, N, SI, SA	#SI18028AMEO*				1,699.00	180mm f/2.8 EX APO Macro OS HSM (86°)	C, N, SI, SA	#SI18028AMEO*		
300mm f/2.8 EX APO HSM (46° Rear)	C, N, P, SI, SA	#SI30028H*				3,399.00	300mm f/2.8 EX APO HSM (46° Rear)	C, N, P, SI, SA	#SI30028H*		
500mm f/4.5 APO EX HSM (46° Rear)	C, N, P, SI, SA	#SI50045DG*				4,999.00	500mm f/4.5 APO EX HSM (46° Rear)	C, N, P, SI, SA	#SI50045DG*		
8-16mm f/4.5-6.3 OS HSM	C, N, S	#SI8164556*				699.00	8-16mm f/4.5-6.3 OS HSM	C, N, S	#SI8164556*		
10-20mm f/4.5-6.3 EX HSM (77°)	C, P, SI, SA	#SI102045D*				379.00	10-20mm f/4.5-6.3 EX HSM (77°)	C, P, SI, SA	#SI102045D*		
10-20mm f/3.5 EX HSM (82°)	C, N, P, SI, SA	#SI102035*			\$150	499.00**	10-20mm f/3.5 EX HSM (82°)	C, N, P, SI, SA	#SI102035*		
12-24mm f/4.5-5.6 EX Asph. HSM II	C, N, SI, SA	#SI122445*				949.00	12-24mm f/4.5-5.6 EX Asph. HSM II	C, N, SI, SA	#SI122445*		
17-50mm f/2.8 EX OS HSM (77°)	C, N, P, SI	#SI175028*			\$150	519.00**	17-50mm f/2.8 EX OS HSM (77°)	C, N, P, SI	#SI175028*		
17-70mm f/2.8-4.0 OS Mac. HSM TSC (72°)	C, N, P, SI, SA	#SI1770284*				499.00	17-70mm f/2.8-4.0 OS Mac. HSM TSC (72°)	C, N, P, SI, SA	#SI1770284*		
18-35mm f/1.8 HSM (72°)	C, N, P, SI, SA	#SI183518DC*				799.00	18-35mm f/1.8 HSM (72°)	C, N, P, SI, SA	#SI183518DC*		
18-200mm f/3.5-6.3 OS II HSM (72°)	SI, SA	#SI1820035*				299.00	18-200mm f/3.5-6.3 OS II HSM (72°)	SI, SA	#SI1820035*		
18-200mm f/3.5-6.3 OS Macro HSM (62°)	C, N, P, SI, SA	#SI1820035D*				399.00	18-200mm f/3.5-6.3 OS Macro HSM (62°)	C, N, P, SI, SA	#SI1820035D*		
18-250mm f/3.5-6.3 OS Macro HSM (62°)	C, N, P, SI, SA	#SI1825035M*			\$200	349.00**	18-250mm f/3.5-6.3 OS Macro HSM (62°)	C, N, P, SI, SA	#SI1825035M*		
18-300mm f/3.5-6.3 OS Macro HSM (72°)	C, N, P, SI, SA	#SI1830035*				579.00	18-300mm f/3.5-6.3 OS Macro HSM (72°)	C, N, P, SI, SA	#SI1830035*		
24-70mm f/2.8 EX IF HSM (82°)	C, N, SI, SA	#SI247028*			\$100	799.00**	24-70mm f/2.8 EX IF HSM (82°)	C, N, SI, SA	#SI247028*		
24-105mm f/4.0 OS HSM (82°)	C, N, SI, SA	#SI24105*				899.00	24-105mm f/4.0 OS HSM (82°)	C, N, SI, SA	#SI24105*		
50-500mm f/4.5-6.3 APO OS HSM (95°)	C, N, P, SI, SA	#SI505004563*			\$150	1,509.00**	50-500mm f/4.5-6.3 APO OS HSM (95°)	C, N, P, SI, SA	#SI505004563*		
70-200mm f/2.8 EX APO OS HSM (77°)	C, N, P, SI, SA	#SI7020028*			\$200	1,199.00**	70-200mm f/2.8 EX APO OS HSM (77°)	C, N, P, SI, SA	#SI7020028*		
70-300mm f/4-5.6 Macro (58°)	C, N, P, SI, SA	#SI703004*				169.00	70-300mm f/4-5.6 Macro (58°)	C, N, P, SI, SA	#SI703004*		
70-300mm f/4-5.6 APO Macro (58°)	C, N, P, SI, SA	#SI703004DG*				179.00	70-300mm f/4-5.6 APO Macro (58°)	C, N, P, SI, SA	#SI703004DG*		
120-300mm f/2.8 OS HSM (105°)	C, N, S	#SI120300*				3,599.00	120-300mm f/2.8 OS HSM (105°)	C, N, S	#SI120300*		
120-400mm f/4.5-5.6 APO OS HSM (77°R)	C, P, SI	#SI120400*				899.00	120-400mm f/4.5-5.6 APO OS HSM (77°R)	C, P, SI	#SI120400*		
150-500mm f/5-6.3 APO OS HSM (86°)	C, N, P, SI, SA	#SI150500*				1,069.00	150-500mm f/5-6.3 APO OS HSM (86°)	C, N, P, SI, SA	#SI150500*		
1.4x EX APO Tele-Converter	C, N, S	#SI14XDG*				249.00	1.4x EX APO Tele-Converter	C, N, S	#SI14XDG*		
2x EX APO Tele-Converter	C, N, S	#SI2XDG*				299.00	2x EX APO Tele-Converter	C, N, S	#SI2XDG*		
DG FLASH EF-610 ST	C, N, P, SI, SA	#SIEF610ST*			\$30	135.00**	DG FLASH EF-610 ST	C, N, P, SI, SA	#SIEF610ST*		
DG FLASH EF-610 Super	C, N, P, SI, SA	#SIEF610*			\$30	225.00**	DG FLASH EF-610 Super	C, N, P, SI, SA	#SIEF610*		
DG FLASH EM-140 TTL Ringlight	C, N, P, SI, SA	#SIEM140DG*			\$30	349.00**	DG FLASH EM-140 TTL Ringlight	C, N, P, SI, SA	#SIEM140DG*		

Tokina

DX — for Digital SLRs Only				FX — Designed for full frame DSLRs			
Price After Rebate				Rebate Exp. 6-30-15			
FX	DX	FX	DX	Canon EOS	Nikon AF	Rebate	Price
100mm f/2.8 Pro D Macro (52°)	#T010028PCAF	#T010028PNAF					379.00
10-17mm f/3.5-4.5 ATX Fisheye	#T0101735CAF	#T0101735NAF					549.00
11-16mm f/2.8 Pro II (77°)	#T0111628PCIL	#T0111628PNIL				\$30	449.00^
11-20mm f/2.8 Pro (82°)	#T0112028PDCX	#T0112028PDNX					599.00
12-28mm f/4.0 Pro (77°)	#T012284DXC	#T012284DXN					449.00
16-28mm f/2.8 Pro	#T01628FXC	#T01628FXN				\$40	589.00^
17-35mm f/4 Pro (82°)	#T01735F4XC	#T01735F4FXN					449.00

TAMRON

6 YEAR WARRANTY

Di for both digital and film SLR cameras				Di-II for digital SLRs Only				Di-III for mirrorless cameras Only															
C = Canon				N = Nikon				P = Pentax				SA = Sony Alpha				SE = Sony E Mount							
** Price After Rebate				Rebates Exp. 6-30-15				SKU #				SE = Mounts				Rebate				Price			
Di-II	60mm f/2.0 LD IF Macro (55ø)				#TA602DI*		C, N, SA														524.00		
Di	90mm f/2.8 Macro (55ø)				#TA9028M*		C, N, P, SA														499.00		
Di	90mm f/2.8 SP Macro VC USD (58ø)				#TA9028VC*		C, N, S														749.00		
Di	180mm f/3.5 LD IF Macro (72ø)				#TA18035*		C, N, SA														739.00		
Di-II	10-24/3.5-4.5 (77ø)				#TA102435*		C, N, P, SA														499.00		
Di-II	16-300/3.5-6.3 VC PZD (67ø)				#TA1630035DI*		C, N, SA														579.00**		
Di-II	17-50/2.8 XR LD IF Asph (67ø)				#TA175028*		C, N, P, SA														499.00		
Di-II	17-50/2.8 XR VC LD IF Asph. (67ø)				#TA175028*3*		C, N														649.00		
Di-II	18-200/3.5-6.3 (62ø)				#TA1820035*		C, N, P, SA														199.00		
Di-III	18-200/3.5-6.3 VC PZD (62ø)				#TA1820035S*		SE Black or Silver														739.00		
Di-II	18-270/3.5-6.3 VC PZD (62ø)				#TA18270*		C, N, SA														349.00**		
Di	24-70/2.8 VC USD (82ø)				#TA247028*		C, N, SA														1,199.00**		
Di	28-75/2.8 XR (67ø)				#TA287528*		C, N, P, SA														499.00		
Di	28-300/3.5-6.3 XR LD (62ø)				#TA2830035XD*		C, P, SA														399.00		
Di	28-300/3.5-6.3 VC PZD (67ø)				#TA2830035DI*		C, N, SA														849.00		
Di	70-200/2.8 LD IF Macro (77ø)				#TA7020028M*		C, N, P, SA														769.00		
Di	70-200/2.8 SP VC USD (77ø)				#TA7020028*		C, N, SA														1,399.00**		
Di	70-300/4-5.6 LD Macro (62ø)				#TA70300M*		C, N, P, SA														199.00		
Di	70-300/4-5.6 VC USD (62ø)				#TA70300*		C, N, SA														349.00**		
Di	150-600/5-6.3 VC USD (95ø)				#TA1506005*		C, N, SA														1,069.00		
1.4x SP AF Pro Teleconverter					#TA14XP*		C, N														224.00		
2x SP AF Pro Teleconverter					#TA2XP*		C, N														254.00		



The Professional's Source®

www.BandH.com

Visit Our Superstore

420 Ninth Ave.

Corner of 34th Street
New York, N.Y. 10001

Hours: Sun. 10-5 • Mon.-Thurs. 9-7
Fri. 9-1 EST/9-2 DST • Sat. Closed



- Over 70,000 square feet of the latest gear
- The most knowledgeable Sales Professionals
- Hands-on demos
- Convenient free parking available

Speak to a Sales Professional

800-947-9960

212-444-6660

Fax:
212-239-7770

Check our website for the most current pricing | www.BandH.com

0815



24 MP

Rebates Expire 7-4-15

Canon Digital Rebel T6i DSLR Camera

- 3.0" Vari-Angle Touchscreen • Built-In Wi-Fi • Creative Filters
- Uses Canon EF Lenses (1.6x factor) • SDHC/SDXC Card Slot
- STM Lens Support for Quiet AF in Movies • Full HD 1080p Video Recording • 5 fps Shooting & Extended ISO to 25600

T6i Kit	T6s Kit	T5i Kit	T5 Kit
with 18-55mm IS STM Lens	with 18-135mm IS STM Lens	with 18-55mm IS STM Lens	with 18-55mm IS II Lens
#CAEDRT6I1855	#CAEDRT6SK1	#CAEDRT5IK	#CAEDRT5K
\$899.99	\$1199.00	\$799.99	\$549.99
-\$50 Rebate	-\$50 Rebate	-\$150 Rebate	-\$100 Rebate
\$849.99	\$1,149.00	\$649.99	\$449.99



20 MP

Rebates Expire 7-4-15

Canon EOS-70D DSLR Camera

- Dual Pixel CMOS AF with Live View • DIGIC 5+ Image Processor
- SD/SDHC/SDXC Card Slot • Uses Canon EF & EF-S Lenses
- 3.0" Vari-Angle Touchscreen • 7 fps Continuous Shooting
- Built-In Wireless Connectivity • Full HD 1080p Video

EOS-70D	EOS-70D Kit	EOS-60D	EOS-60D Kit
Body Only	with 18-55mm STM Lens	Body Only	with 18-135mm IS Lens
#CAE70D	#CAE70D1855	#CAE60D	#CAE60D18135
\$1,199.00	\$1,349.00	—	—
-\$200 Rebate	-\$200 Rebate	—	—
\$999.00	\$1,149.00	—	—



20 MP

Rebates Expire 7-4-15

Canon EOS-7D Mark II DSLR Camera

- 3" Clear View II LCD • Native ISO 16000
- Dual Pixel CMOS AF with Live View • Continuous 10 fps Shooting
- Dual CF and SDHC/XC Card Slots • Built-In GPS Receiver & Digital Compass • Full HD 1080p/60 Video & Movie Servo AF

EOS-7D mII	EOS-7D	EOS-7D Kit	EOS-7D Kit
Body Only	Body Only	with 18-135mm IS Lens	with 28-135mm IS Lens
#CAE7D2	#CAE7D	#CAE7D18135	#CAE7D28135
\$1,799.00	—	—	—
-\$100 Rebate	—	—	—
\$1,699.00	—	—	—



20 MP

Rebates Expire 7-4-15

Canon EOS-6D DSLR Camera

- Full-Frame CMOS Sensor • 3.0" LCD • Uses Canon EF Lenses
- SD/SDHC/SDXC Card Slot • Built-In Wi-Fi and GPS Connectivity
- Full HD 1080p with Manual Controls • Up to 4.5 Full Resolution FPS
- ISO 50-102400 • Built-In HDR & Multiple Exposure Modes

EOS-6D	EOS-6D Kit
Body Only	with 24-105mm f/4 L IS Lens
#CAE6D	#CAE6D24105
\$1,699.00	\$2,299.00
-\$300 Rebate	-\$300 Rebate
\$1,399.00	\$1,999.00



22 MP

Rebates Expire 7-4-15

Canon EOS-5D Mark III DSLR Camera

- 3.2" Clear View High Resolution LCD • DIGIC 5+ Image Processor
- Uses Canon EF Lenses • Dual CF, SD Card Slots
- Full HD 1080/30p & 720/60p Formats • 61-Point High Density AF
- Built-In HDR & Multiple Exposure Modes • ISO 50-102400

EOS-5D Mark III	EOS-5D Mark III Kit
Body Only	with 24-105mm f/4 L IS Lens
#CAE5D3	#CAE5D324105
\$2,799.00	\$3,399.00
-\$300 Rebate	-\$300 Rebate
\$2,499.00	\$3,099.00



18 MP

Rebates Expire 7-4-15

Canon EOS-1Dx DSLR Camera

- Dual DIGIC 5+ Image Processors • 3.2" LCD
- Magnesium Alloy Body • 1920 x 1080 HD Video Capture
- Uses Canon EF Lenses • Dual CF card slots
- Eye-Level Pentaprism Viewfinder
- Live View Still & Video Recording
- 61-Point High Density Auto Focus

EOS-1Dx			
Body Only	#CAE1DX.....	\$5,999.00	
	Less \$700 Rebate.....	Final \$5,299.00	

Canon SLR Lenses & Flashes

Call for Current Rebates & Promotions

Rebates Expire 7-4-15

EOS Flash System	MAP	Instant Rebate	Final
270EX II.....	169.99	\$30	139.99
320EX.....			
430EX II.....	299.99	\$40	259.99
600EX-RT.....	549.99	\$50	499.95
MR-14EX II Ringlight.....	549.99	\$50	499.99
MT-24EX Twin Flash.....	829.99	\$60	769.99

EF-S Digital Lenses	MAP	Instant Rebate	Final
(Not compatible with full frame cameras)			
24/2.8 STM (52ø).....	149.99		
60/2.8 USM Macro (52ø).....	469.99	\$50	419.99
10-18/4.5-5.6 IS STM (67ø).....	299.00	\$50	249.00
10-22/3.5-4.5 USM (77ø).....	649.99	\$50	599.99
15-85/3.5-5.6 IS USM (72ø).....	799.99		
17-55/2.8 IS USM (67ø).....	879.99	\$50	829.99
17-85/4-5.6 IS USM (67ø).....	CALL		
18-55/3.5-5.6 IS (58ø) II.....	199.99		
18-135/3.5-5.6 IS (67ø).....	499.99		
18-200/3.5-5.6 IS (72ø).....	699.99		
55-250/4-5.6 IS USM II (58ø).....	249.99		
55-250/4-5.6 IS STM II (58ø).....	299.99		

TSE MF Lenses	MAP	Instant Rebate	Final
17/4.0 L.....	2,149.00		
24/3.5 L II.....	1,899.00		
45/2.8.....	1,399.00		
90/2.8.....	1,399.00		

EF Lenses	MAP	Instant Rebate	Final
20/2.8 USM (72ø).....	539.99	\$50	489.99
24/2.8 IS USM (58ø).....	599.99	\$50	549.99
28/1.8 USM (58ø).....	509.99	\$60	449.99
28/2.8 IS USM (58ø).....	549.99	\$50	499.99
35/2 IS USM (67ø).....	599.99	\$50	549.99
40/2.8 STM Pancake (52ø).....	199.99	\$50	149.99
50/1.8 II (52ø).....	125.99		
50/2.5 Macro (52ø).....	299.99		
50/1.4 USM (58ø).....	399.99	\$70	329.99
MP-E 65/2.8 1x-5x Macro (58ø).....	1,049.00		
85/1.8 USM (58ø).....	419.99	\$70	349.99
100/2 USM (58ø).....	499.99	\$50	449.99
100/2.8 USM Macro (58ø).....	599.99	\$50	549.99
400/4.0 DO IS II USM (52ø).....	6,899.00		
24-105/3.5-5.6 IS STM (77ø).....	599.00		
28-135/3.5-5.6 IS USM (72ø).....	CALL		
70-300/4-5.6 IS USM (58ø).....	649.99		
70-300/4.5-5.6 DO IS USM (58ø).....	1,399.00		
75-300/4.0-5.6 III (58ø).....	199.99		
75-300/4.0-5.6 III USM (58ø).....	234.99		

EF "L" Lenses	MAP	Mail-in Rebate	Final
14/2.8 USM II.....	2,099.00		
24/1.4 II (77ø).....	1,549.00		
35/1.4 USM (72ø).....	1,479.00	\$150	1,329.00
50/1.2 USM (72ø).....	1,449.00	\$50	1,399.00
85/1.2 USM II (72ø).....	1,999.00	\$50	1,949.00
100/2.8 IS USM Macro (67ø).....	899.99	\$50	849.00

EF "L" Lenses	MAP	Mail-in Rebate	Final
135/2.0 USM (72ø).....	999.00	\$50	949.00
180/3.5 USM Macro (72ø).....	1,399.00		
200/2.8 USM II (72ø).....	749.00		
200/2.0 IS USM (52ø).....	5,699.00		
300/4.0 IS USM (77ø).....	1,349.00		
300/2.8 IS USM II (52ø rear).....	6,099.00		
400/5.6 USM (77ø).....	1,249.00		
400/2.8 IS II (52ø rear).....	9,999.00		
500/4 IS USM II (52ø rear).....	8,999.00		
600/4.0 IS II (52ø rear).....	11,499.00		
8-15/4.0 Fish-eye USM.....	1,249.00		
11-24/4 USM.....	2,999.00		
16-35/4 IS USM (77ø).....	1,099.00	\$100	999.00
16-35/2.8 USM II (82ø).....	1,599.00	\$100	1,499.00
17-40/4.0 USM (77ø).....	799.99	\$100	699.00
24-70/4.0 IS USM (77ø).....	999.99	\$200	799.00
24-70/2.8 IS USM (82ø).....	1,899.00	\$100	1,799.00
24-105/4 IS USM (77ø).....	999.99		
28-300/3.5-5.6 IS USM (77ø).....	2,449.00		
70-200/4.0 USM (67ø).....	649.99		
70-200/4.0 IS USM (77ø).....	1,199.00	\$100	1,099.00
70-200/2.8 USM (77ø).....	1,349.00		
70-200/2.8 IS II USM (77ø).....	2,099.00	\$100	1,999.00
70-300/4.0-5.6 IS USM (67ø).....	1,349.00		
100-400/4.5-5.6 IS USM (77ø).....	1,699.00		

EF Teleconverters	MAP	Mail-in Rebate	Final
1.4x III.....	429.99		
2x III.....	429.99		

B&H
In the
palm
of your
hand



Holiday Schedule

July 26
Closed

Cash in or Trade up

We Buy, Sell,
and Trade
**Used
Equipment**



The Professional's Source®

www.BandH.com

FREE EXPEDITED SHIPPING On orders over \$49.00

24
MP

Rebates Expire 6-27-15

Nikon D3300 DSLR Camera

- EXPEED 4 Image Processor • Full HD 1080p Video Recording
- 3.0" LCD • 5 fps Shooting • SD/SDHC/SDXC Card Slot
- Uses Nikon AF Lenses (1.5x factor) • Easy Panorama Mode and Guide Mode • Nikon Inc. limited warranty included

D3300 Kit	D3200 Kit
Black, Grey or Red with 18-55mm VR II Lens	Black or Red with 18-55mm VR Lens
#NID33001855*	#NID32001855*
\$646.95	\$529.95
-\$150 Rebate	-\$80 Rebate
\$496.95	\$449.95

24
MP

Rebates Expire 6-27-15

Nikon D5500 DSLR Camera

- EXPEED 4 Image Processor • Full HD 1080p Video at 60 fps
- Uses Nikon AF Lenses (1.5x factor) • SDHC/XC Card Slot
- 3.2" Vari-Angle Touchscreen • Built-In Wi-Fi
- ISO 100-25600 • Nikon Inc. limited warranty included

D5500 Kit	D5300 Kit	D5200 Kit
Black or Red with 18-55mm VR II	Black or Grey with 18-55mm VR II	Black only with 18-55mm VR
#NID55001855*	#NID53001855*	#NID52001855*
\$999.95	\$896.95	\$599.95
-\$150 Rebate	-\$150 Rebate	-\$50 Rebate
\$849.95	\$746.95	\$549.95

24
MP

Rebates Expire 6-27-15

Nikon D7200 DSLR Camera

- No Optical Low-Pass Filter • Dual SDHC/SDXC Card Slots
- EXPEED 4 Image Processor • Full HD 1080p Video Recording
- Accepts Nikon AF Lenses (1.5x factor) • 3.2" LCD
- Built-In Wi-Fi with NFC • Nikon Inc. limited warranty included

D7200	D7200 Kit	D7100	D7100 Kit
Body Only	with 18-140mm VR DX Lens	Body Only	with 18-140mm VR DX Lens
#NID7200	#NID720018140	#NID7100	#NID710018140
—	\$1,699.95	\$1,199.95	\$1,696.95
—	-\$200 Rebate	-\$300 Rebate	-\$500 Rebate
\$1,199.95	\$1,499.95	\$899.95	\$1,196.95

24
MP

Rebates Expire 6-27-15

Nikon D750 DSLR Camera

- FX-Format (Full-Frame) CMOS Sensor • 3.2" Tilting LCD
- Uses Nikon AF Lenses • Full HD 1080p Video Recording at 60 fps
- EXPEED 4 Image Processor • Built-In Wi-Fi Connectivity
- SD/SDHC/SDXC Card Slot • Nikon Inc. limited warranty included

D750	D750 Kit	D610	D610 Kit
Body Only	with 24-120mm VR Lens	Body Only	with 24-85mm VR Lens
#NID750	#NID75024120	#NID610	#NID6102485
\$2,296.95	\$3,596.95	\$1,996.95	\$2,596.95
-\$300 Rebate	-\$900 Rebate	-\$500 Rebate	-\$600 Rebate
\$1,996.95	\$2,696.95	\$1,496.95	\$1,996.95

36
MP

Rebates Expire 6-27-15

Nikon D810 DSLR Camera

- FX-Format CMOS Sensor • EXPEED 4 Image Processor
- Uses Nikon AF Lenses • ISO Expandable to 51200 • 3.2" LCD
- Full HD 1080p Video at 60/30/24 fps • Optical Low-Pass Filter
- CF & SD Dual Card Slots • Nikon Inc. limited warranty included

D810	D810 Kit
Body Only	with 24-120mm VR Lens
#NID810*	#NID81024120*
\$3,296.95	\$4,599.95
-\$300 Rebate	-\$900 Rebate
\$2,996.95	\$3,699.95

16
MP

Rebates Expire 6-27-15

Nikon D4s DSLR Camera

- FX-format (full-frame) CMOS Sensor • 3.2" LCD
- CF Type 1 & XQD Compatible • Full HD 1080p Video at 60 fps
- 14-Bit RAW Files & 12-Bit RAW S Format
- EXPEED 4 Image Processor • Compatible with Most Nikkor Optics • 11 fps Shooting for 200 Shots with AE/AF
- Nikon Inc. limited warranty include

D4s
Body Only #NID4S.....\$6,496.95
Less \$500 Rebate.....Final \$5,996.95

Nikon SLR Lenses & Flashes

Call for Current Rebates & Promotions

Rebates Expire 6-27-15

Instant Savings on Lenses with purchase of any Nikon DSLR

AF Flashes	Price	Rebate	Final
SB-300.....	146.95		
SB-500.....	246.95	\$20	269.95
SB-700.....	326.95	\$30	296.95
SB-910.....	546.95	\$50	496.95

R1 Wireless Twin Flash.....			
R1C1 Wireless Twin Flash System.....			

DX ED-IF Lenses for Digital Only	Price	Rebate	Final
10.5/2.8 Fish-Eye.....	774.95		
35/1.8 G AF-S (52ø).....	196.95		
40/2.8 G AF-S Micro (52ø).....	276.95	\$30	246.95
85/3.5 G ED VR Micro.....	526.95	\$100	426.95
10-24/3.5-4.5 G AF-S (77ø).....	899.95		
12-24/4 G AF-S (77ø).....	1,224.95		
16-85/3.5-5.6 G AF-S VR (67ø).....	699.95		
17-55/2.8 G AF-S (77ø).....	1,539.95	\$140	1,399.95
18-55/3.5-5.6 G AF-S II (52ø).....	119.95		
18-55/3.5-5.6 G AF-S VR (52ø).....	196.95		
18-55/3.5-5.6 G AF-S VR II (52ø).....	246.95		
18-105/3.5-5.6 G AF-S VR.....	396.95		
18-140/3.5-5.6 G AF-S VR **.....	496.95	\$200 **	296.95
18-200/3.5-5.6 G AF-S VR II.....	596.95		
18-300/3.5-5.6 G AF-S ED VR (77ø).....	996.95		
18-300/3.5-6.3 G AF-S ED VR (67ø).....	896.95	\$100	796.95
55-200/4.5-5.6 G AF-S (52ø).....			
55-200/4.5-5.6 G AF-S VR II.....	346.95	\$200	146.95
55-300/4.5-5.6 G AF-S VR.....	396.95	\$150	246.95

D-Type AF Lenses	Price	Rebate	Final
14/2.8 D ED.....	1,894.95		
16/2.8 D (39ø) with Hood.....	999.95		
20/2.8 D (62ø).....	624.95		
20/1.8 G AF-S ED (77ø).....	796.95		
24/2.8 D (52ø).....	394.95	\$50	344.95
24/1.4 G AF-S ED (77ø).....	2,199.95		
24/3.5 D ED PC-E (77ø).....	2,199.95		
28/1.8 G AF-S (67ø).....	696.95		
28/2.8 D (52ø).....	289.95	\$40	249.95
35/2.0 D (52ø).....	389.95		
35/1.4 G AF-S ED (67ø).....	1,799.95	\$200	1,599.95
35/1.8 G AF-S ED (58ø).....	596.95		
45/2.8 D ED PC-E Micro (77ø).....	2,049.95		
50/1.8 D (52ø).....	134.95		
50/1.8 G AF-S (58ø).....	216.95		
50/1.4 D (52ø).....			
50/1.4 G AF-S (58ø).....	484.95	\$50	434.95
58/1.4 G AF-S (72ø).....	1,696.95	\$200	1,496.95
60/2.8 D Micro (62ø) (1:1).....	519.95		
60/2.8 G AF-S ED Micro (62ø).....	599.95	\$100	499.95
85/1.8 G AF-S (67ø).....	496.95		
85/1.4 G AF-S (77ø).....	1,699.95		
85/2.8 PC-E Micro (77ø).....	1,979.95		
105/2.8 G AF-S ED-IF VR Micro (62ø).....	984.95	\$135	849.95
105/2.0 DC D with Hood (72ø).....	1,199.95		
180/2.8 D ED-IF (72ø).....	1,004.95		
200/4 D ED-IF Micro with Case (62ø).....	1,794.95		
200/2 G AF-S ED-IF VR II (52ø).....	5,999.95		
300/4.0 D AF-S ED-IF (77ø).....			

D-Type AF Lenses	Price	Rebate	Final
300/2.8 G AF-S VR (52ø-R).....	5,899.95		
500/4.0 G AF-S VR ED (52ø).....			
600/4.0 G AF-S VR ED (52ø).....			
14-24/2.8 G AF-S ED-IF.....	1,996.95		
16-35/4.0 G AF-S ED VR (77ø).....	1,256.95		
17-35/2.8 D AF-S ED-IF (77ø).....	1,954.95		
18-35/3.5-4.5 AF-S G ED (77ø).....	746.95		
24-70/2.8 G AF-S ED-IF (77ø).....	1,886.95	\$200	1,686.95*
24-85/2.8-4.0 D IF (72ø).....	744.95		
24-85/3.5-4.5 G AF-S ED VR.....	596.95	\$100	496.95
24-120/4.0 G AF-S ED VR (77ø).....	1,296.95		
28-300/3.5-5.6 G AF-S ED VR.....	1,046.95	\$250	796.95^
70-200/4.0 G AF-S ED VR (67ø).....	1,396.95		
70-200/2.8 G AF-S ED-IF VR II (77ø).....	2,396.95	\$300	2,096.95*
70-300/4.0-5.6 G (62ø).....	172.95		
70-300/4.5-5.6 G-AFS VR.....	586.95	\$200	386.95
80-200/2.8 D with Collar (77ø).....	1,224.95		
80-400/4.5-5.6 G AF-S ED VR (77ø).....	2,696.95		
200-400/4 G AF-S ED VR II (52ø).....	6,999.95		

Teleconverters	Price	Rebate	Final
TC-14E III (1.4x) Teleconverter.....	499.95		
TC-17E II (1.7x) Teleconverter.....	549.95	\$50	499.95
TC-20E III (2x) Teleconverter.....	499.95	\$50	449.95

* When purchased with a D810, D4s

** When purchased with a D3300, D5300, D5500, D7100, D7200

^ When Purchased with D7100, D7200, D610, D750, DF, D810, D4s



The Professional's Source®

www.BandH.com

Visit Our Superstore

420 Ninth Ave.

Corner of 34th Street
New York, N.Y. 10001

Hours: Sun. 10-5 • Mon.-Thurs. 9-7
Fri. 9-1 EST/9-2 DST • Sat. Closed



- Over 70,000 square feet of the latest gear
- The most knowledgeable Sales Professionals
- Hands-on demos
- Convenient free parking available

Speak to a Sales Professional

800-947-9960

212-444-6660

Fax:
212-239-7770

Check our website for the most current pricing | www.BandH.com

0815

ZEISS Manual Focus Lenses

	Canon ZE	Nikon ZF2
15mm f/2.8 Distagon T* (95ø)	#ZE1528ZEC 2,950.00	#ZE1528ZF2N 2,950.00
18mm f/3.5 Distagon T* (82ø)	#ZE1835ZEC 1,395.00	#ZE1835ZF2N 1,395.00
21mm f/2.8 Distagon T* (82ø)	#ZE2128ZEC 1,843.00	#ZE2128ZF2N 1,843.00
25mm f/2 Distagon T* (67ø)	#ZE252ZEC 1,699.00	#ZE252ZF2N 1,699.00
28mm f/2 Distagon T* (58ø)	#ZE282ZEC 1,283.00	#ZE282ZF2N 1,283.00
35mm f/2 Distagon T* (58ø)	#ZE352ZEC 1,117.00	#ZE352ZF2N 1,117.00
35mm f/1.4 Distagon T* (72ø)	#ZE3514ZEC 1,843.00	#ZE3514ZF2N 1,843.00
50mm f/1.4 Planar T* (58ø)	#ZE5014ZEC 725.00	#ZE5014ZF2N 725.00
50mm f/2 Makro-Planar T* (67ø)	#ZE502ZEC 1,283.00	#ZE502ZF2N 1,283.00
85mm f/1.4 Planar T* (72ø)	#ZE8514ZEC 1,283.00	#ZE8514ZF2N 1,283.00
100mm f/2 Makro-Planar T* (67ø)	#ZE1002ZEC 1,843.00	#ZE1002ZF2N 1,843.00

Manual Focus Lenses

NOTE: These lenses are compatible with autofocus cameras, but ONLY in manual-focus mode.

C = Canon EOS N = Nikon O = Olympus OM P = Pentax K SA = Sony Alpha

	Mounts	Price	Price
8mm f/3.5 Fisheye	C, N, P, SA #B0835S* —	239.99	#ROFE8M* 269.95
14mm f/2.8 WA	C, N, P, SA #B014* —	349.99	#ROFE14M* 349.00
24mm f/1.4 WA (77ø)	C, N, P, SA #B02414* —	499.95	#RORK24M* 599.00
35mm f/1.4 (77ø)	C, N, P, SA #B03514* —	379.99	#RORK35M 499.00
85mm f/1.4 (72ø)	C, N, P, SA #B08514* #V81514*	269.99	#RO85M* 299.00
500mm f/8 Mirror w/Mount	C, N, P, SA #B05008K* #V50008*	118.95	#RO5008* 108.50
500mm f/6.3 Mirror w/Mount	C, N, O, P, SA #B050063* #V500063*	152.95	#RO50063* 129.95
800mm f/8 Mirror w/Mount	C, N, O, P, SA #B08008K* #V80008*	249.95	#RO8008* 188.50
650-1300mm f/8-16 w/Mount	C, N, O, P, SA #B06501300* —	264.95	#RO6501300* 247.95

Lens Protection

Lens Covers

- Available with a custom fit for most popular lenses
- Clear, flexible window over the AF/IS/VR controls and the distance-scale window.
- Custom holes that reveal the red-dot for easy alignment to the camera body without removing the cover.
- Available in Black Digital Camo, Forest Green Camo, Realtree Max4 HD, Hardwoods Snow or white for Canon lenses



Hoodie Lens Caps

The neoprene Hoodie features a reinforced removable front element protection disc made from rigid plastic and firm foam to protect your lens from dirt, dust, moisture, and impact.

** Specify type of camouflage: Digital Camo, Forest Green, Realtree Max4 HD, or Hardwoods Snow



Size	SKU #	Black	Camo**
Medium	#LELCHM*	13.99	18.99
Large	#LELCHL*	13.99	18.99
X-Large	#LELCHXL*	14.99	19.99
2XL	#LELCH2XL*	15.99	20.99
3XL	#LELCH3XL*	17.99	22.99
4XL	#LELCH4XL*	24.99	29.99

LENSBABY Selective Focus Lenses

Composer Pro with Sweet 50 Optic

The metal swivel ball design and ultra-smooth manual focusing ring delivers steady, fluid control over the focus and tilt making this the perfect choice to create ground breaking creative imagery.



for Canon, Micro 4/3, Nikon, Pentax, Samsung & Sony #LELCP50* **299.95**

Composer Smooth and Precise

Ideal for tabletop and macro photography. Compress and bend the lens to find your desired Sweet Spot and lock it in place with the push of a button.



for Canon, Nikon, Olympus, Pentax, Sony #LELC* **199.95**

5.8mm f/3.5 Circular Fisheye Lens

Change your Point of View

Get close, go wide and play with flare! Lensbaby's 5.8mm, 185° Circular Fisheye lets you experiment with extreme perspective while focusing as close as 1/4" from the front of your lens. Create anything you can imagine with our multipurpose manual fisheye. There is no electronic communication between the lens and the camera body. Optimized for APS-C sensor DSLRs. (Produces a smaller image circle on full frame DSLRs.)

for Canon, Nikon #LE5835CF* **299.95**

Flashes

Shoe-Mount Flashes	Shoe-Mount AF Flashes
24 AF-1 Digital 89.99	PF20XD Digital Slave 49.95
28 CS-2 Digital 139.99	RD-2000 52.19
52 AF-1 TTL Touchscreen 300.00	DF3000 Digital for Canon, Nikon, Sony 69.95
58 AF-2 TTL Digital 399.99	PZ-4000 AF TTL 89.95
64 AF-1 Digital 449.99	PZ-40x II AF TTL for Nikon (Silver) 69.95
64 AF-2 Digital 449.99	PZ-42x AF TTL for Canon or Nikon 139.00
Handle-Mount Flash Systems - Digital	Handle-Mount Flashes
45 CL-4 TTL 519.99	622 Super Pro TTL 179.95
76 MZ-5 TTL 1,039.99	
Batteries	
Battery 1 224.00	285HV Professional Auto 84.95
Turbo SC 351.00	Pearstone SB-4 AC Adapter for 285HV #PESB4 ... 14.95
Turbo 3 624.00	

Meters

GOSSEN	SEKONIC
DigiFlash 2 215.99	Digi Pro F2 324.99
Starlite 2 744.99	DigiSky 510.88
Kenko	
KFM-1100 Auto Meter 249.00	L208 Twin Mate 126.00
KFM-2200 Cine & Flash Meter 559.90	L308DC Digidigimater 279.00
POLARIS	
Polaris Digital 189.95	L308S Flashmate 199.00
Polaris Dual 5 294.99	L478D Lifemaster Pro 339.00
	L758DR Digital Flashmaster 634.00
	C500 Prodigy Color 1,216.00
	C500 Prodigy with Module 1,338.00

58 AF-2 TTL

Shoe-Mount Flash

- Guide No. 58'
- Full TTL Mode
- Zoom Head (24-105)
- Bounce Head
- Swivel Head
- Update via USB Port
- Secondary Reflector with 3 Output Ratios



SUNPAK

PZ-42x AF TTL

Shoe-Mount Flash

- Guide No. 138'
- Automatic Shutdown Mode
- Bounce & Swivel Head
- Large Illuminated LCD panel
- AF Assist Light
- Weight: 9.1 oz



Vivitar

285HV Professional Auto

Shoe-Mount Flash

- Guide No. 120'
- Automatic exposure range to 70'
- 4 auto 1/stop settings
- Bounce Head
- Zoom Head (28-105)



QUANTUM

Qflash TRI0

Parabolic Reflector Flash

- Radio Wireless TTL
- Bounce and Swivel Head
- Guide No. 110'
- Built-In FreeWire
- High-Speed Sync
- TTL compatible



QUANTUM

Turbo Blade

Battery Pack with Charger

- Shoe Mount Recycling: 1/10-1.5 sec
- Less Than 15 Ounces • 1.5 Hour Recharging
- 1/4"-20 Top/Bottom Mounts
- Blade-thin: Only 1.44" Height



SEKONIC

L-358 Flash Master

Digital Incident, Reflected & Flash Lightmeter

- Weatherproof
- Built-In adjustable incident dome
- Rotating 270° Receptor Head
- Weight: 5.4 oz



VELLO Portable Flash Accessories

Universal Softbox

- Softens and Diffuses Light



Light Bouncers

- Fits Nearly Any Portable Flash



Snoot/Reflectors

- Use As a Snoot or Reflector



Honeycomb Grids

- Tightens Light Beam



Small #VEFD300	Basic #VEFD200	5" #VEFD400	1/8" #VEFD600
Medium #VEFD310	Plus #VEFD210	8" #VEFD410	1/4" #VEFD610
Large #VEFD320			

B&H
In the
palm
of your
hand



Holiday Schedule

July 26
Closed

Cash in or Trade up

We Buy, Sell,
and Trade
**Used
Equipment**



The Professional's Source®

www.BandH.com

FREE EXPEDITED SHIPPING On orders over \$49.00



Canon Powershot S120

- 5x Optical Zoom • 4x Digital Zoom
- 5.2-26mm f/1.8-5.7 (35mm equiv: 24-120mm) • 3.0" Touchscreen LCD
- SD/SDHC/SDXC Card Slot
- Full HD 1080/60p Video • ISO 12800

#CAPSS120B\$449.99
Less \$100 RebateFinal **\$349.99**



FUJIFILM X30

- 3.0" Tilting LCD • Die-Cast Magnesium Body
- Full HD 1080 Video @60fps • EXR Processor II
- 4x Optical Zoom • Dual Manual Control Rings
- 7.1-28.4mm f/2-2.8 (35mm equiv: 28-112mm)
- SDHC/XC Card Slot • ISO 100-12800
- Classic Chrome Film Simulation Mode

Black or Silver #FUX30*



OLYMPUS Stylus Tough TG-860

- 3.0" 180° Flip LCD • Built-In Wi-Fi
- Waterproof to 50' • Crushproof to 220 lb
- Shockproof to 7' • Coldproof to 14°F
- 5x Optical Zoom f/3.5-5.7 Lens
- SDHC/XC Card Slot
- Full HD 1080 Video at 60 fps

Black, Orange or White #OLSTG860*



SONY CyberShot DSC-HX50V

- 3.0" Xtra Fine LCD
- Full HD 1080/60p AVCHD Video Capture
- 30x Optical Zoom • 60x Digital Zoom
- 4.3-129mm f/3.5-6.3 (35mm equiv: 24-720mm) Lens • SD/SDHC Card Slot
- Built-In Wi-Fi and GPS

#SODSCHX50VB



Canon Powershot SX60 HS

- 65x Optical Zoom • RAW Image Capture
- 3.8-247mm f/3.4-6.5 (35mm equiv: 21-1365mm) • 3.0" Vari-Angle LCD
- SDHC/SDXC Card Slot • Built-In Wi-Fi
- Full HD 60p Video & External Mic Input

#CAPSSX60HS\$549.99
Less \$70 RebateFinal **\$479.99**



Nikon Coolpix L840

- 3.0" Tilting LCD • Built-In Wi-Fi
- 38x Optical Zoom • 76x Digital Zoom
- 4-152mm f/3-6.5 VR Lens (35mm equiv: 22.5-855mm) • SDHC/XC Card Slot
- Full HD 1080p Video at up to 30 fps

Black or Red #NICPL840*\$299.99
Less \$50 RebateFinal **\$249.99**



Panasonic Lumix DMC-FZ70

- 3.0" LCD • SD/SDHC/SDXC Card Slot
- Full HD 1080i AVCHD Video at 60 fps
- 60x Optical Zoom • 5x Digital Zoom
- 3.58-215mm f/2.8-5.9 (35mm equiv: 20-1200mm) DC Vario Lens
- Creative Controls, Panorama, and Retouch

#PADMCFZ70B



SONY CyberShot DSC-RX100 III

- 3.0" Multi-Angle Xtra Fine LCD
- 2.9x Optical Zoom • 11x Digital Zoom
- 8.8-25.7mm f/1.8-2.8 (35mm equiv: 24-70mm) Carl Zeiss Vario-Sonnar T* Lens
- MS Pro Duo/Pro HG-Duo, SDHC/SDXC Card Slot • Full HD Video • Built-In Wi-Fi with NFC

#SODSCRX100M3



Canon Powershot G16

- 3.0" LCD • Full HD 1080/60p Video
- 5x Optical Zoom • 4x Digital Zoom
- 6.1-30.5mm f/1.8-2.8 (35mm equiv: 28-140mm) • SD/SDHC/SDXC Card Slot
- Enhanced Wi-Fi Capabilities

#CAPSG16\$499.99
Less \$100 RebateFinal **\$399.99**



Nikon Coolpix P610

- 3.0" Vari-Angle LCD • Built-In GPS & Wi-Fi
- 60x Optical Zoom • 120x Digital Zoom
- 4.3-258mm f/3.3-6.5 (35mm equiv: 24-1440mm) • SDHC/XC Card Slot
- Full HD 1080p Video at up to 60 fps

Black or Red #NICPP610*\$499.99
Less \$50 RebateFinal **\$449.99**



Panasonic Lumix DMC-LX100

- 4K Ultra HD Video at 30/24 fps in MP4
- Full HD Video at 60fps in MP4 or AVCHD
- 3.0" LCD • SDHC/SDXC Card Slot
- Full HD 1080 Video Recording
- Leica DC Vario-Summilux f/1.7-2.8 Lens
- Built-In Wi-Fi • External Flash Included

Black or Silver #PADMCLX100*



SONY CyberShot DSC-RX10

- Built-In Wireless and NFC Connectivity
- 8.8-73.3mm f/2.8 (35mm equiv: 24-200mm) Carl Zeiss • 3.0" Tilting LCD
- Full HD 1080i/p Video at 60 and 24 fps
- MS Duo/Micro, microSDHC Card Slots
- Super Sonicwave Motor for Fast Autofocus

#SODSCRX10B

MEMORY CARDS

CF Compact Flash

	Delkin				Kingston		Lexar		Sandisk		
	500x	700x	1000x	1050x	Ultimate 266x	Ultimate 600x	800x	1066x	Ultra 50MBs	Extreme 120MBs	Extreme Pro 160MBs
16GB	29.95	34.95	39.95	—	18.95	—	38.80	39.95	20.95	37.95	49.95
32GB	34.95	39.95	59.95	79.95	28.95	44.95	51.97	68.95	32.99	49.95	65.95
64GB	68.50	72.50	86.99	149.95	49.95	79.95	78.80	118.69	—	69.99	129.95
128GB	—	159.99	209.95	238.99	—	—	177.95	178.99	—	164.99	236.00
256GB	—	—	—	—	—	—	359.90	469.95	—	—	529.99
512GB	—	—	—	—	—	—	749.95	—	—	—	—

SDHC-UHS1 Ultra High Speed

	Lexar	Sandisk	Sony
	Platinum 300x	Micro Extreme 80MBs	Class 10 94MBs
8GB	5.99	19.89	11.66
16GB	9.99	15.95	22.49
32GB	14.99	28.95	37.95

SDHC-UHS1 Speed Class 3 (U3)

	Delkin	Kingston	Lexar	Sandisk	Sony
	633x	90MBs	633x 95MBs	Extreme 60MBs	Extrm Pro 95MBs
8GB	17.95	—	—	—	—
16GB	26.95	19.95	—	13.45	—
32GB	36.95	28.95	19.95	21.88	35.95

SDHC-UHS2

	Delkin	Lexar	Sandisk
	U3 280MBs	1000x 150MBs	2000x 300MBs
8GB	—	—	—
16GB	64.95	14.95	—
32GB	114.95	28.95	39.95

SDXC-UHS1 Ultra High Speed

	Lexar	Sandisk	Sony
	Platinum 300x	Micro Extreme 80MBs	Class 10 94MBs
64GB	29.99	49.91	64.95
128GB	56.95	99.95	—
256GB	—	—	—
512GB	—	—	—

SDXC-UHS1 Speed Class 3 (U3)

	Delkin	Kingston	Lexar	Sandisk	Sony
	633x	90MBs	633x 95MBs	Extreme 60MBs	Extrm Pro 95MBs
64GB	69.95	49.95	36.95	44.95	59.95
128GB	93.50	—	68.95	—	109.95
256GB	175.95	—	127.95	—	227.95
512GB	—	—	—	499.95	—

SDXC-UHS2

	Delkin	Lexar	Sandisk
	U3 280MBs	1000x 150MBs	2000x 300MBs
64GB	—	44.34	68.95
128GB	—	78.69	—
256GB	—	147.59	—
512GB	—	—	—

CFast 2.0 High Speed

High-speed file transfer to meet the demands of broadcast, cinema, and photography.



	Sandisk	Lexar 510 Mbs
Extreme Pro 515 Mbs	32GB 117.99	128GB 363.99
128GB	 499.95	64GB 196.69
		256GB 678.99

XQD High-Speed for Nikon D4

	Lexar	Sony
	Professional 1333x	N Series 125MBs
32GB	95.95	84.95
64GB	139.95	169.95

SDHC Secure Digital High Capacity

	Delkin	Kingston	Sandisk
	Pro Class 10	Micro Class 10 Mobility	Standard Class 4
4GB	7.95	—	4.95
8GB	8.95	6.95	5.95
16GB	10.95	9.95	8.95
32GB	15.95	16.95	16.95



The Professional's Source®

www.BandH.com

Visit Our Superstore

420 Ninth Ave.

Corner of 34th Street
New York, N.Y. 10001

Hours: Sun. 10-5 • Mon.-Thurs. 9-7
Fri. 9-1 EST/9-2 DST • Sat. Closed



- ▶ Over 70,000 square feet of the latest gear
- ▶ The most knowledgeable Sales Professionals
- ▶ Hands-on demos
- ▶ Convenient free parking available

Speak to a Sales Professional

800-947-9960

212-444-6660

Fax:

212-239-7770

Check our website for the most current pricing | www.BandH.com

0815



Tripods with Ball Head

- Detachable Leg and Column Form Monopod • Bubble Level/s
- Non-Rotating Twist-Lock Legs • Grooved center column
- Rubber Feet & Retractable Metal Spikes • Included padded carry bag

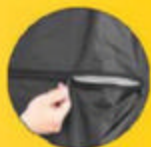
Model	Included Ball Head	Load Capacity	Max. Height	Folded	Weight	SKU #	Price
Anodized Aluminum Tripods							
AT-3421	BA-106T	6.6 lb	59"	16.8"	2.7 lb	#OBAT3421106T	\$159.95
AT-3431	BA-108T	8.8 lb	61.3"	17.3"	2.8 lb	#OBAT3431108T	\$199.95
AT-3441	BA-111T	11 lb	63.4"	17.5"	3.5 lb	#OBAT3441111T	\$249.95
AT-3451	BA-113T	13.2 lb	65.5"	18.1"	3.6 lb	#OBAT3451113T	\$289.95
AT-3461	BA-117T	17.6 lb	67.1"	18.9"	4.5 lb	#OBAT3461117T	\$299.95
6x Carbon Fiber Tripods							
CT-3431	BE-108T	8.8 lb	59.5"	17"	2.5 lb	#OBCT3431108T	\$399.95
CT-3451	BE-113T	13.2 lb	61.3"	17.1"	2.5 lb	#OBCT3451113T	\$479.95
CT-3461	BE-117T	17.6 lb	64.5"	17.4"	3.1 lb	#OBCT3461117T	\$479.95
CT-3481	BE-126T	26.4 lb	68"	18.8"	3.8 lb	#OBCT3481126T	\$499.95
CT-3521	BE-106T	6.6 lb	56.4"	14.8"	2.4 lb	#OBCT3521106T	\$379.95
CT-3531	BE-108T	8.8 lb	60.8"	15.5"	2.5 lb	#OBCT3531108T	\$399.95
CT-3551	BE-113T	13.2 lb	62.4"	16"	2.6 lb	#OBCT3551113T	\$469.95
CT-3561	BE-117T	17.6 lb	64.3"	16.8"	3.1 lb	#OBCT3561117T	\$349.95
CT-3581	BE-126T	26.4 lb	67.9"	16.9"	3.9 lb	#OBCT3581126T	\$369.95

impact™ LIGHTING EQUIPMENT AND ACCESSORIES

Parabox Speedlight Kit

Kit Includes:

- 24x36" Parabox Softbox
- Umbrella Bracket with Adjustable Shoe
- Adjustable Locking Triple Flash Adapter
- 10" Air-Cushioned Light Stand



#IMPBSB2436K \$218.84

Astral Extreme 2-Light Portrait Kit

Kit Includes:

- 2 x Astral Extreme AS-X-400 Monolight
- 10" Air-Cushioned Light Stand
- Luxbanx Small 36" Octagonal Softbox
- Speed Ring
- Fabric Grid 36" for Luxbanx
- Convertible 45" Umbrella - White Satin with Removable Black Backing

#IMASX4002LK \$1,189.58

VELLO™ BATTERY GRIPS

- Accepts 2 lithium-ion batteries to effectively double the camera's battery life (Batteries not included)
- The included AA battery holder allows you to use 6 AA batteries for added convenience (except BG-N3)
- Alternate shutter release button, main and sub command dials, and an AE-L/AF-L button are provided to facilitate shooting in a vertical orientation

for Canon T5i, T4i, T3i, T2i	BG-C5.2	#VEBGC52.....	\$67.95
for Canon T5, T3	BG-C7	#VEBGC7	\$59.95
for Canon 6D	BG-C8	#VEBGC8	\$74.95
for Canon 5D Mark III	BG-C9	#VEBGC9	\$99.95
for Canon 70D	BG-C10	#VEBGC10.....	\$84.95
for Nikon D5200, D5100	BG-N6	#VEBGN6.....	\$59.95
for Nikon D800, D800E	BG-N7	#VEBGN7	\$89.95
for Nikon D3100, D3200	BG-N9	#VEBGN9	\$64.95
for Nikon D600, D610	BG-N10	#VEBGN10.....	\$79.95
for Nikon D7100, D7200	BG-N11	#VEBGN11.....	\$89.95
for Nikon D750	BG-N15	#VEBGN15.....	\$89.95

PHOTOGRAPHY ACCESSORIES

B&H
In the
palm
of your
hand



Holiday Schedule

July 26
Closed

Cash in or Trade up

We Buy, Sell,
and Trade
**Used
Equipment**



The Professional's Source®

www.BandH.com

FREE EXPEDITED SHIPPING On orders over \$49.00

FILTERS

TIFFEN 10-Year Warranty Made in USA		Multicoated Filter Technology				
		52mm	58mm	62mm	72mm	77mm
812 Warming		65.32	75.37	49.44	54.31	129.95
Grad ND 0.6		75.37	84.90	110.54	99.99	140.68
Circular Polarizer		110.54	81.90	105.05	137.23	193.99
Ultra Clear		43.54	39.90	58.62	44.90	48.90
Haze 86		28.60	30.38	75.37	44.10	60.00
ND 1.2		65.32	75.37	99.95	109.95	130.63
ND 0.6		59.95	35.89	63.15	99.95	80.34
Soft FX3		75.37	85.41	110.54	120.59	140.68
Star 4 pt 2		65.32	75.37	100.49	110.54	130.63

Filter Stack Caps 43mm	10.95	52mm	12.95	55mm	10.95	58mm	14.95
Filter Stack Caps 62mm	13.95	67mm	14.95	72mm	15.95	77mm	16.95

HOYA		Buy 3 or more Hoya Filters & Get 10% Off				
		52mm	58mm	67mm	72mm	77mm
Skylight (1B) HMC		15.50	20.90	19.95	24.95	52.35
UV Haze NXT HMC		23.90	26.85	37.90	44.90	53.90
Linear Polarizer		15.20	18.26	26.77	32.50	44.90
Circular Polarizer		29.90	31.90	44.90	50.90	60.90
Circular Polarizer HMC		49.95	—	49.95	76.95	93.95
"Moose" Warm Circular Polarizer		33.96	37.15	53.90	56.87	68.45
K2 Yel, XO Yel/Grn, Grn X1, Or G, Red 25A HMC		20.78	23.99	34.90	31.54	45.66
Close Up Set (+1, +2, +4)		34.50	49.89	47.62	52.42	50.28
Close-up Multicoated		34.95	39.90	46.90	64.99	47.95
Enhancing (Intensifier)		21.99	29.99	44.50	58.21	63.49
Neutral Density 2x, 4x, 8x HMC		17.85	21.90	30.86	37.09	41.56
Star 6, Star 8		16.50	19.95	31.42	33.94	37.45

B+W		Buy 3 or more B+W Filters & Get 5% Off					
		52mm	58mm	62mm	67mm	72mm	77mm
UV Haze SC		16.95	19.40	21.50	23.00	33.90	34.95
UV Haze MRC 010M		29.89	32.50	33.63	36.90	49.36	59.75
Circular Polarizer SC		69.70	62.50	64.50	78.00	63.88	99.95
Circular Polarizer MRC		64.99	74.89	70.00	89.95	89.95	127.20
Circular Polarizer Kaesemann MRC		99.90	79.99	99.95	94.95	—	128.99
Skylight KR1.5 (1A)		24.50	24.50	—	—	42.00	—
Soft Pro		75.50	94.50	95.00	111.50	135.50	156.50
Graduated (N.D. & Colors)		109.95	116.50	126.50	119.95	136.95	144.95
Neutral Density 106		60.00	56.00	82.93	73.98	74.88	99.00
Close-Up Lenses 1, 2, 3, 4, 5		24.50	24.50	31.95	36.00	42.00	49.00

Filter Wrenches Set of 2 for 48-58mm Filters #GEFW4858	4.95
Filter Wrenches Set of 2 for 62-77mm Filters #GEFW6277	5.95

cokin		Buy 3 or more Cokin Filters & Get 10% Off			
		"A"	"P"	Z-Pro	
<i>Cokin universal filter holder system allows you to use 1 of 160 different filters on many different-sized lenses. Works with all lenses of SLR cameras (35mm or Digital) and Video/Broadcast cameras. The filter holder is attached to the lens by the adapter ring and takes specially designed round or square filters.</i>					
Adapter Rings					
"A" 49mm, 52mm, 58mm, 62mm	ea. 15.92	027 Warm 81B	16.99	—	44.99
"P" 52mm, 55mm, 58mm, 62mm, 67mm, 72mm, 77mm, 82mm	ea. 19.32	056 Star 8	25.71	32.14	—
"Z-Pro" 52mm, 55mm, 58mm, 62mm, 72mm, 77mm, 82mm	ea. 41.53	083/830 Diffuser 1	30.70	—	—
		120 Grad G1 ND	24.99	35.00	—
		121 Grad G2 Grey	32.53	33.44	—
		122 Grad B1 Blue	32.53	32.00	72.68
		125 T2 Tobacco	32.53	33.44	72.68
		153 Grey ND4x	22.07	32.56	53.85
		164 Circular Polarizer	48.79	110.65	649.90
		173 VC Blue/Yellow	38.15	78.00	—
		197 Sunset 1	30.91	19.99	69.05

FILM - B&W AND COLOR

COLOR PRINT		Kodak Ektar		COLOR SLIDE		BLACK & WHITE PRINT		Ilford		Ilford XP-2 Super	
Fujifilm Superia		100 135-36	7.99	Fujifilm Provia		Fujifilm		Pan F+ 50 135-36	6.50	400 135-36	6.49
CA 200 135-24	2.99	100 120 Roll	5.59	RDP 100F 135-36	9.95	Acros 100 135-36	5.89	Pan F+ 50 120 Roll	4.95	400 120 Roll	4.75
CH 400 135-24	3.79	Kodak Portra		135-36 Pro Pack (5)	49.75	Acros 100 120 Roll	5.09	FP4+ 125 135-36	4.99	Ilford Infrared	
CH 400 135-36	3.99	160 135-36	7.99	RDP 100F 120 Roll	7.19	Kodak		FP4+ 125 120 Roll	4.39	SFX 200 135-36	7.99
CZ 800 135-24	3.99	160 120 Roll	6.39	120 Pro Pack (5)	35.95	Tri-X 400 135-36	5.99	HP5+ 400 135-36	4.75	SFX 200 120 Roll	7.49
Fujifilm Pro		160 220 Roll	14.59	Fujifilm Velvia RVP		Tri-X 400 120 Roll	4.85	HP5+ 400 120 Roll	4.09	PROCESSING MAILERS	
400H 135-36	10.29	160 220 PP (5)	72.95	Pro 50 135-36	11.50	TMX 100 135-36	5.95	Ilford Delta Pro		Fujifilm Slide	
400H 120 Roll	7.55	400 135-36	8.59	Pro 50 120 Roll	8.55	TMX 100 120 Roll	5.19	100 135-36	6.25	36 Exposures (35mm)	10.59
Kodak Gold Max		400 120 Roll	5.99	100 135-36	10.64	TMX 100 120 Roll	5.19	100 120 Roll	4.50	A&I	
GC 400 135-24	2.09	400 220 PP (5)	74.75	100 120 Roll	7.69	TMY 400 135-36	4.95	400 135-36	6.29	Print C41 35mm	13.49
GC 400 135-36	3.69	800 135-36	10.99	Ilford		TMY 400 120 Roll	5.39	400 120 Roll	4.95	Print C41 120 Roll	15.49
		800 120 Roll	11.39	Ilford		BW 400CN 135-36	8.89	3200 135-36	8.99	Print C41 220 Roll	30.95
				Ilford				3200 120 Roll	5.99		

LIGHTING

Background System Stands Economy 74.95 Port-A-Stand with Free Roll of White Paper * 114.95 Multi 3 Polevault 217.99 * with purchase of Port-A-Stand Paper Available in 48 Colors 53" x 12 yds. 24.95 107" x 12 yds with Core 45.95		impact. Fashion Beauty Dish Kit Digital Monolight • Digital Monolight 400W/s • 22" Beauty Dish Reflector • 40" Honeycomb Grid • 22" Diffuser sock • 9.6" AC Light Stand Heavy Duty (Black) • Beauty Dish Adapter #IMVSLCD4003K 409.91		impact. Octacool Light Kits with 29.5" Octobox • Octacool 6 or 9 Lamp Fixture • Removable Aluminum Reflector • 28W Lamps • Internal Diffusion Baffle Octacool-9 Back Octacool-6 Front Octacool-6 #IMOC6SB 199.95 Octacool-9 #IMOC9SB 259.00		impact. Pro Trigger Kit with 2x PowerSync 16-80 Transceivers & Trigger Cable • 80-Channel Wireless Control • Range: up to 720' • 4 Individual Groups • Sync Up to 1/250s for Canon #IMPS80C* 199.95 for Nikon #IMPS80N* 199.95	
impact. Quikbox Micro On-Camera Softbox • For Shoe-mount Flash • Quick Setup • Folds Flat, Compact • Removable Baffle and Diffuser • High Output Silver Interior 9 x 9" #IMQB99MOC 64.95		impact. Luxbanx Duo Medium Strip Softbox • For Strobe, LED, Fluorescent Lights • Also Compatible with Quartz Lights • Maximum Quartz Wattage: 1,000W • Heat-Resistant Textured Silver Interior • Removable Inner Baffle, Front Diffuser • Fits Speed Rings for Most Brands • Optional Fabric Grids 16x55" #IMLBSTDM 249.95		impact. Luxbanx Duo Small/Deep Octagonal Softbox • For Strobe, Fluorescent and LED Lights • Compatible with Hot Lights up to 1,000W • Textured Silver Interior • Removable Inner Baffle, Front Diffuser • Fits Speed Rings for Most Popular Brands 39" #IMLBODSD 129.95		impact. Panel Frame Reflector Kits Zebra Gold / Silver • Reversible 2-Sided Fabric • Collapsible Aluminum Alloy Frame • Padded Shoulder Bag 43 x 67" #IMFPK436ZGS 299.95 59 x 82" #IMFPK598ZGS 464.95	



The Professional's Source®

www.BandH.com

Visit Our Superstore

420 Ninth Ave.

Corner of 34th Street
New York, N.Y. 10001

Hours: Sun. 10-5 • Mon.-Thurs. 9-7
Fri. 9-1 EST/9-2 DST • Sat. Closed



- Over 70,000 square feet of the latest gear
- The most knowledgeable Sales Professionals
- Hands-on demos
- Convenient free parking available

Speak to a Sales Professional

800-947-9960

212-444-6660

Fax:
212-239-7770

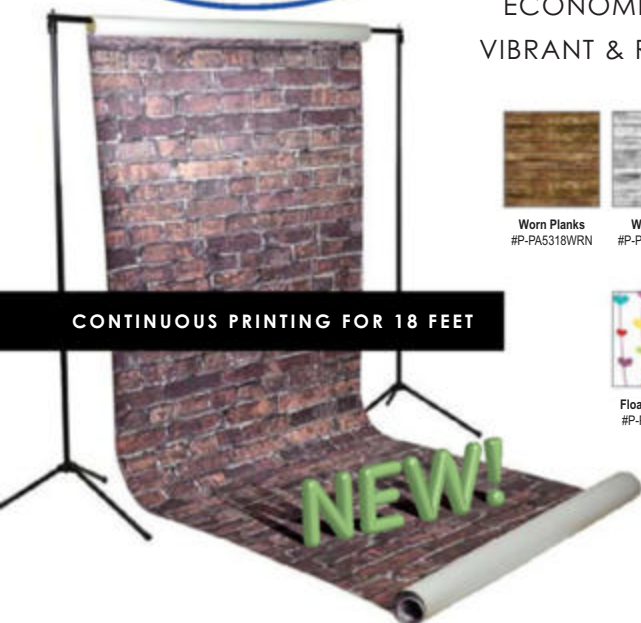
Check our website for the most current pricing | www.BandH.com

0815

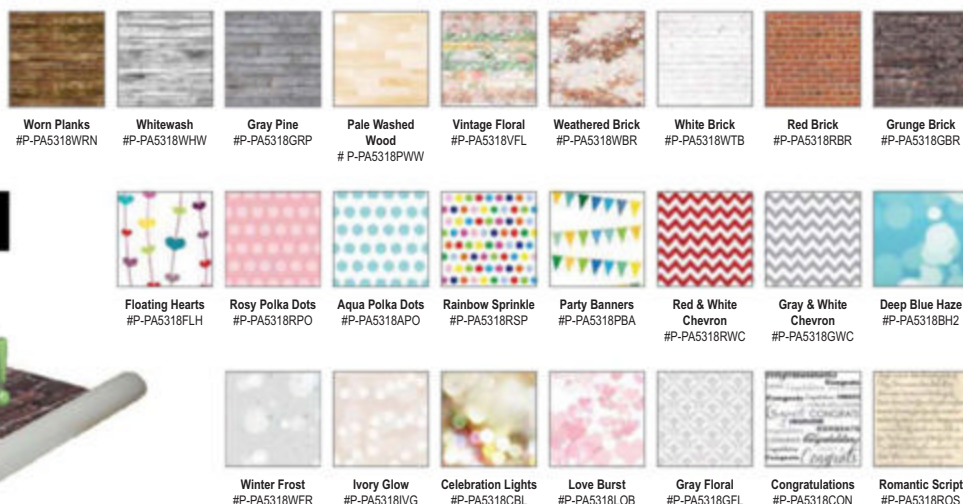


PRINTED BACKGROUND PAPER ROLLS

ECONOMICAL • PAPER IS CORE WOUND FOR EASY HANGING
VIBRANT & REALISTIC • CONVENIENT 53' X 18' SIZE (1.35m x 5.5m)



CONTINUOUS PRINTING FOR 18 FEET

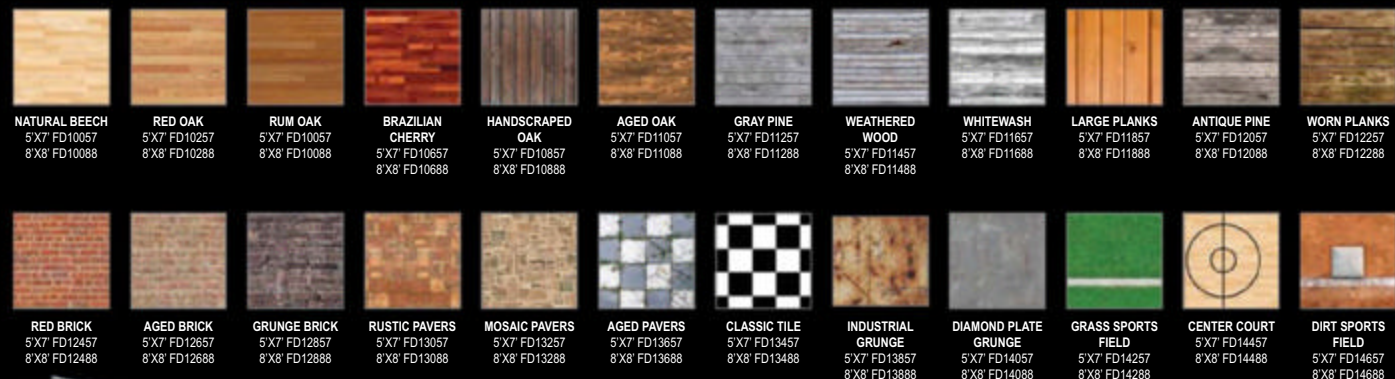


SAVAGE FLOORDROPS REALISTIC BACKGROUNDS FOR THE FLOOR OR WALL

24 LIFELIKE, DETAILED, AND BEAUTIFUL OPTIONS

Easily create the look and feel of an on-location shot in the comfort of your studio.

Savage Floordrops are printed on quality polyester, with a heavy-duty 1.5MM non-slip rubber back.



USE AS FLOORDROP AND/OR BACKDROP



AVAILABLE IN 5' X 7' OR 8' X 8' TO FIT ANY STUDIO



PROFESSIONAL-GRADE POLYESTER PRINTED SURFACE

B&H
In the
palm
of your
hand



Holiday Schedule

July 26
Closed

Cash in or Trade up

We Buy, Sell,
and Trade
**Used
Equipment**



The Professional's Source®

www.BandH.com

0815

FREE EXPEDITED SHIPPING On orders over \$49.00



Collapsible Backgrounds Reversible, Solid & Retro | Starting at \$149



Portable, compact, and simple to set up and take down, Savage Collapsible Backgrounds are an ideal choice for photographers looking for a versatile backdrop that easily makes the transition from studio to location.

- Perfect for On-Location Photography
- Sized to 5'x6' & Collapses to 26"
- Carry Bag Included



Kits

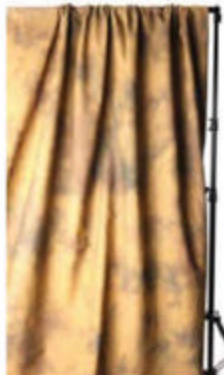
Royal Tone
Lakeside
Monsoon
Indigo Nights
Spring Essence
Earth Tone
Blk/Wh
Dark/Lt Gray
Chroma Grn/Blue
Cream/Wh
Lt Pink/Wh
Lt Blue/Wh
Lt Green/Wh
Lt Purple/Wh
Matador Red/Wh
Navy Blue/Wh
Teal/Wh
Antique Blk
Retro Red
Retro Blk/Wh
Retro Blue
Retro Green
Retro Purple

CB100KIT
CB102KIT
CB104KIT
CB106KIT
CB108KIT
CB110KIT
CB112KIT
CB114KIT
CB116KIT
CB150KIT
CB152KIT
CB154KIT
CB156KIT
CB158KIT
CB160KIT
CB162KIT
CB164KIT
CB166KIT
CB168KIT
CB170KIT
CB172KIT
CB174KIT
CB176KIT
CB178KIT
CB180KIT

All collapsible kits include a 5' x 6' background, carry bag and 8' aluminum stand.



Muslin Backgrounds | Starting at \$55



Solid Muslin	White 10'x12' SD0112	Black 10'x12' SD2012	Gray 10'x12' SD1212	Chroma Green 10'x12' SD4612
Crushed Muslin	Sedona Red 10'x12' CM0112	Blue Winter 10'x12' CM0212	Mocha Bisque 10'x12' CM0312	Gray Skies 10'x12' CM0412
Washed Muslin	Sky Blue 10'x12' WD5012	Light Gray 10'x12' WD5112	Forest Green 10'x12' WD5212	Brown 10'x12' WD5312
Retro Muslin	Retro Red 10'x12' RET0112	Retro Pink 10'x12' RET0113	Baby Blue 10'x12' RET0114	Antique Brown 10'x12' RET0115
Hand Painted Muslin	Venus 10'x10' 406026-1010	Verona 10'x10' 406018-1010	Petra 10'x10' 406010-1010	Olympia 10'x10' 406004-1010

- Sewn on all sides for ultimate durability & superior visual appeal
- Machine washable • 100% cotton
- Seamless construction • Easy to clean

Kits

All muslin kits include a 10'x10' or 10'x12' background, and 10'x6' wide x 8'10" high, portable Porta-Stand.

10'x20' Muslin Kits
Venus 62037-1020
Verona 62037-1020
Petra 62037-1020
Olympia 62037-1020
Milano 62037-1020
Bogata 62037-1020

10'x12' Solid Kits
White 01PAS-12
Black 20PAS-12
Green 46PAS-12
Gray 12PAS-12
Blk/Wh 0120PAS-12
Blk/Wh/Grn 01120PAS-12
Blk/Wh/Grn 012046PAS-12



Vinyl Backgrounds | Starting at \$87



Savage Vinyl Backgrounds provide an ultra-smooth background and have a unique matte finish that eliminates glare. Vinyl stands up extremely well to wear, resists scuffs and is very easy to clean.

- Durable glare-free, matte finish material
- Moisture-resistant, easily cleaned finish
- Sturdy core prevents wrinkles and sagging

Pure White	5'x7' V01-0507	8'x10' V01-0810	8'x20' V01-0820	9'x10' V01-0910	9'x20' V01-0920	10'x10' V01-1010	10'x20' V01-1020
Matte Black	5'x7' V20-0507	8'x10' V20-0810	8'x20' V20-0820	9'x10' V20-0910	9'x20' V20-0920	10'x10' V20-1010	10'x20' V20-1020
Chroma Green	5'x7' V46-0507	8'x10' V46-0810	8'x20' V46-0820	9'x10' V46-0910	9'x20' V46-0920	10'x10' V46-1010	10'x20' V46-1020
Pure White	5'x7' V70-0507	8'x10' V70-0810	8'x20' V70-0820	9'x10' V70-0910	9'x20' V70-0920	10'x10' V70-1010	10'x20' V70-1020

Kits

All Vinyl kits include a 5' x 12' Background, and Porta-Stand (10' 6" wide, 8' 10" high)

White 62037-0612
Black 62037-2012
Green 62037-4612
Gray 62037-7012



Green Screen Photo & Video Kits | Starting at \$65

Software Included!



Photo Creator Kit

- 5'x7' Muslin Green Screen
- 720 Digital Backgrounds
- Green Screen Wizard [PC/Mac]
- Removable hanging hooks

DBSK100



Digital Photography Kit

- 5'x6' Collapsible Green Screen
- 720 Digital Backgrounds
- Green Screen Wizard [PC/Mac]
- 8' Aluminum stand

DPK100



Video Green Screen Suit with FREE Sony Movie Software

- Full-Body Chroma-key Green Screen Suit
- Sony Movie Studio Platinum 12 software [PC]

Small: VIDSMD Large: VIDS LG



Basic Video Kit

- 10'x12' Muslin Green Screen Background
- Sony Movie Studio Platinum 12 software [PC]

VID1012



Premium Video Kit

- 10'x12' Muslin Green Screen Background
- Sony Movie Studio Platinum 12 software [PC]
- Portable Background Stand

VID1024-PAS



Mat, Mount & Presentation Board



TruBlack Presentation Board

A neutral deep board is significantly "blackier" than standard presentation board. Other presentation board tends to have gray or blue tones. TruBlack is made with a solid black core middle and lined on both sides with deep black 4ply/40pt thickness.

8" x 10"	200 Qty	#414001
11" x 14"	100 Qty	#414002
16" x 20"	100 Qty	#414004



Prestax® Mounting Board

Prestax® is a superior, pH neutral, pressure sensitive mounting board that requires no tissue, no heat and no special equipment, making it simple, fast, and economical to use. Peel back the release sheet, position the artwork or photo, and firmly press down, smoothing over the entire surface. 50pt thickness.

8" x 10"	200 Qty	#30050
11" x 14"	100 Qty	#30052
16" x 20"	100 Qty	#30054



Mat Boards Black/White Cut Size

When you've created a truly amazing image that's worthy of hanging or selling, you'll want to make sure your presentation of the piece is both professional and archival. Savage Cut Size Mat Board is made from the finest cream core pulp and acid-free papers. 4ply/40pt thickness.

8" x 10"	200 Qty	#15401
11" x 14"	100 Qty	#15402
16" x 20"	100 Qty	#15404



HOLLAND
PHOTO IMAGING

- Digitally exposed RA-4 color prints up to 50" wide
- Giclée/Inkjet prints up to 60" wide on fine art paper and canvas
- Dip & dunk processing of B&W, C-41, and E-6 film from 35mm to 8x10 sheets

- High resolution scans up to 500MB+ on our Imacon 848 scanner
- Fine art copywork and edition printing
- Affordable quantity scanning of prints and slides
- Quality machine prints from wallet to 12"x18" on Kodak Endura paper

FINE PHOTO LAB SERVICES FOR OVER 30 YEARS!

877.310.8703
1700 S. Lamar Blvd., Ste. 327
Austin, TX 78704

Mail order department hours
Monday- Friday 9-6

Email questions to:
hollandorder@gmail.com

ORDER PRINTS AT:
WWW.HOLLANDPHOTO.COM

NEW Announcing our High Resolution **SUPER SCANS!**

FILM DEVELOPING
C-41, E-6 & B&W

As low as
\$11
INCLUDES
Scanning & Web Upload



TheDarkroom.com

Large Prints
Canvas (mounted or unmounted),
Fine Art Prints also now available
Odd Shapes and Sizes
Fast Turnaround
Easy Site Navigation!

Perfect Posters COM

bigprintsusa.com
Canvas Prints
Free Shipping
(on orders over \$15.00)

Price Includes: Printing on artist canvas, Mounting on Stretcher Frame, Boxed and **SHIPPED FREE.**

www.bigprintsusa.com

Darkroom Imaging

www.darkroomimaging.com

- Full service Pro photo lab
- On-Line ordering 24/7




1-800-566-9504

BUY SELL TRADE **Alpine Camera**
YOUR COMPLETE FILM AND DIGITAL SOURCE

TOP \$ PAID FOR YOUR DIGITAL AND FILM PHOTOGRAPHIC EQUIPMENT

***FREE QUOTE**
ON PHONE OR ONLINE

***PLUS**
FREE RETURN SHIPPING
If we cannot make the purchase!

National (800) 518-6181 Local (847) 299-6181
686 Lee Street, Des Plaines, IL 60016

AlpineCameraUSA.com

Put Your Photos on Canvas

11 x 14	24 x 30
11 x 17	24 x 36
12 x 16	30 x 40
16 x 20	36 x 48
18 x 24	38 x 60
20 x 30	

Gallery Wrap Available

Color Services
Photo Lab

C41 and B&W Processing
Film Scans • Print Scans
Prints from Negatives & Slides
Chromira prints up to 30" wide
Fine Art prints up to 40" wide
Prints on Aluminum
Prints on Canvas
Prints on Wood
Photo Wall Clings

Since 1976

(800) 207-7927
colorservices.com

ILFORD LAB DIRECT
REAL BLACK & WHITE PRINTS
TRADITIONAL SILVER GELATIN PRINTS

- Dip & Dunk Film Developing
- Silver Gelatin B&W Printing
- Prints From Film or Digital



Visit our website for info and free calibration print!

ilfordlab-us.com

nature's image

2016 Photography Field Workshops:
Smoky Mountains, WV Wildflowers, Tangier Island, NC Waterfalls, Chincoteague Island
(Details to come on website)



Bill & Linda Lane - 804.883.7740
billindaphoto@mindspring.com
www.LanePhotoWorkshops.com

FLASHPOINT
www.adorama.com

Pro Albums



NEW



- Self Adhesive Album
Peel n' Stick With Padded Front Cover
- Bella Series - Book bound w/metal edges
- Barn door style CD Holder for 1 or 2 CD's

FLASHPOINT www.adorama.com

Nikon®

AUTHORIZED SERVICE

FILM • DIGITAL • LENS • FLASH

Nikon Factory Trained and computerized for Professional complete equipment repair.

Free Estimates, Fast Friendly Service.
Call us for the Quality Service you deserve!

800-406-2046
Authorized Photo Service
8125 River Dr., Suite 100
Morton Grove, IL 60053
www.authorizedphoto.com



We're Norman Specialists! WE HAVE TRANSFORMERS for all 450 series equipment... P125, V200, P200B, P202, P400, P500. Been told your older Normans are unrepairable? Not so! Let us keep 'em working for you.

NORMAN REPAIR

Over 50 years combined experience servicing Norman. 200B/C, 400B SPECIALISTS! Also repairing: Photogenic, Speedotron, Dynalite, Novatron, Graflex, Camerz, Beattie an Hawk. CALL US TOLL FREE for fast and thorough service!

(800) 988-7111

HOLLY ENTERPRISES
15848 Rayen St., North Hills, CA 91343



STO-FEN OMNI-BOUNCE

CUSTOM MADE FOR YOUR STROBE

The "OMNI" All Directional Bounce

It achieves the effect of Umbrella & Soft Bare Bulb illumination. Works well with all lenses from 16 to 200mm, including zooms. Designed for the following strobes: Canon 199A, 300TL, 270EX, 380EX, 420EX, 420EX, 430EX, 430EZ, 540EZ, 550EX, 580EX, 580EXII & NEW 600EX/RT, Metz MZ-3, 32Z-2, 32Z-2, 36AF, 44AF, CT/C/L45, CT60, 40M22, 40M21 & 31, 40AF4N, 58AF1, 50M25, 54M23 & M270, 70M2-4&5, 76M25, Minolta 350xi, 3600, 4000AF, 52001, 5400xi/hs & 5600HS, Nikon SB16, SB24, SB25, SB26, SB28, SB28DX, SB50DX & SB80DX, SB400, SB600, SB800, SB900, Olympus T32, FL36, FL40, FL50 & G40, Pentax 330FTZ, AF360FGZ, AF500FTZ & AF540FGZ, Sumpak 355AF, 383, 422, 433, 444, 30DX, 455, 522, 544, 555 PZ4000AF, PZ5000AF, PZ40X, MZ40AF, RD2000, Sony HVL-F36, F56, HVL-F58AM, HVL-F32X, HVL-F1000 & FH1100, Achiever 260 Series, Vivitar 283, 285, 728AF, 730AF, 830AF, 840AF, 850AF, 2500, 3500, 3700, 4600 & 5600. Plus Universal for many other bounce strobe units. If you do not see your flash listed, please ask, as we can fit many other flashes not listed.

"Specify your strobe when ordering"
AVAILABLE AT MANY DEALERS
Only: \$19.95 plus \$2.50 shipping
CA & NY residents add sales tax
To Order, CALL TOLL FREE
800-538-0730
AmEx, VISA & MASTERCARD Welcomed.
Mail Orders Send Check or Money Order.
Most orders shipped within 48 hours.



Onmi shown on Nikon SB25

STO-FEN PRODUCTS
P.O. Box 7609
Santa Cruz, CA 95061
Inquiries: 831-427-0235
Fax: 831-423-8336
www.stofen.com

Photography On Bald Mountain

Professional—Classic Antique Camera Repair
All Older Cameras

Alpa-Ermemann-Compur-Hasselblad-Canon-Leitz
Goerz-Ektra-Copal-Thornton-Pickard-Marions
Richard-Rectaflex-Newman & Guardia-Zeiss
Graflex-Dallmeyer-Exakta-Linhof-Plaubel Voigtlander-
Wollensak-Pentacon-Ilex-Ducati Bronica-Yashica-
Horizont-Pathe-Kinetoscope Nikon-Rolleiflex-
Contessa-Asahi-Ansco-Miranda ICA-Rochester
Optical-Compass-Stereo Realist and...Ones you never knew existed!

KEN RUTH BALDMTN.COM
113 Bald Mountain, Davenport, CA 95017
(831) 423-4465
http://home.pacbell.net/baldmtn
email: baldmtn@pacbell.net



Alpine Camera

YOUR COMPLETE FILM AND DIGITAL SOURCE

Classic Camera Repairs

ALL MAKES & MODELS
Film & Digital Cameras
Lenses & Projectors
Starting at \$89.95 + S&H
up to 1yr. Warranty

686 Lee Street, Des Plaines, IL 60016
National (800) 518-6181
Local (847) 299-6181
Mon - Fri 10-6 Sat 10-5 CST

AlpineCameraRepair.com

TAMARKIN CAMERA

"America's Premier Leica Specialist"

Expert repair service for Leica M, R and Screw-mount cameras and lenses.



(800) 289-5342

www.CAMERABOOKS.com

Featuring over 17,500 Titles:
100's of DVD's. Books on
Cameras; History of Photography;
How-To, Incl. Digital; Repair
manuals. 1000's of ORIGINAL
instructional manuals. In stock/
ready to ship. **WE BUY Camera
Books and Manuals**
Petra Keller's PH 541-504-7620
FAX 541-504-7623
Pkell1014@aol.com

ACRATECH

GP Ballhead



Weights only
1lb. (.45kg)

Holds 25 lbs.
(11kg)

Also works as
a Gimbal head
and a panoramic
head

(909) 392-7522
www.acrattech.net

Made in the USA.



KEH CAMERA

The Smarter Way to Buy and Sell

REPAIR CENTER

National Service on 35mm, Digital,
Medium and Large Format-Bodies,
Lenses & Accessories

Average turnaround time of 2-3 weeks
with rush service available

Factory trained technicians
Free repair estimates
Call 800-DIAL-KEH email repair@keh.com

Highly experienced service for the professional since 1969 • Custom electronic and machine shop work • Special designs and adaptations • Head conversions • Power increases • Parts and equip. sales • Mail orders no problem!

STROBE REPAIR

These brands only

Norman • Photogenic • Speedotron • Novatron • Dynalite • Graflex flash only • Camerz and Beattie cameras and film magazines

Metal Foot for Vivitar 283/285
"FLASH-FOOT ONE" • Machined • One Piece • Patented Black anodized • AC sync socket • CALL US TOLL FREE!!

(800) 988-7111 voice • (818) 892-8021 fax

HOLLY ENTERPRISES
15848 Rayen St., North Hills, CA 91343



LEICA FOR SALE

Dan Black

LEICA and other fine cameras

Buy – Sell – Trade

mrdmblack@gmail.com

Phone: 610-664-7345



Classic Connection LLC
THE PHOTOGRAPHY SOURCE

Sam Shoshan

Medium Format, 35mm

Rangefinders and 35mm SLRs.

TOP PRICES PAID

888-534-2272 or

203-371-2352/2353

sam@classicconnection.com

STO-FEN

OMNI-BOUNCE

CUSTOM MADE FOR YOUR STROBE

The "OMNI" All Directional Bounce

It achieves the effect of Umbrella & Soft Bare Bulb illumination. Works well with all lenses from 16 to 200mm, including zooms. Designed for the following strobes: Canon 199A, 300TL, 270EX, 380EX, 420EX, 420EZ, 430EX, 430EZ, 540EZ, 550EX, 580EX, 580EXII & **NEW 600EX/RT**. Metz MZ-3, 322-1, 322-2, 36AF, 44AF, CT/CL45, CT60, 40MZ2, 40MZ11 & 3i, 40AF4N, 58AF1, 50MZ5, 54MZ3 & MZ70, 70MZ-4&5, 76MZ5. Minolta 3500xi, 3600, 4000AF, 5200i, 5400xi/hs & 5600HS. Nikon SB16, SB24, SB25, SB26, SB28, SB28DX, SB50DX & SB80DX, SB400, SB600, SB800, SB900. Olympus T32, FL36, FL40, FL50 & G40. Pentax 330FTZ, AF360FGZ, AF500FTZ & AF540FGZ. Sunpak 355AF, 383, 422, 433, 444, 30DX, 455, 522, 544, 555 PZ4000AF, PZ5000AF, PZ40X, MZ40AF, RD2000. Sony HVL-F36, F56, HVL-F58AM, HVL-F32X, HVL-F1000 & FH1100. Achiever 260 Series. Vivitar 283, 285, 728AF, 730AF, 830AF, 840AF, 850AF, 2500, 3500, 3700, 4600 & 5600. Plus Universal for many other bounce strobe units. If you do not see your flash listed, please ask, as we can fit many other flashes not listed.

"Specify your strobe when ordering"

AVAILABLE AT MANY DEALERS

Only: \$19.95 plus \$2.50 shipping
CA & NY residents
add sales tax

To Order, CALL TOLL FREE

800-538-0730

VISA, MASTERCARD, AMEX

Welcomed. Mail Orders
Send Check or Money Order.

Most orders shipped
within 48 hours.



Omni shown on Nikon SB25

STO-FEN PRODUCTS

P.O. Box 7609, Dept. S9, Santa Cruz, CA 95061

Inquiries: 831-427-0235 • Fax: 831-423-8336

www.stofen.com



SHUTTERBUG

ADVERTISER'S INDEX

Adorama.....	55, 59, 96-97	Stan Tamarkin	67
Alien Skin Software	9	XP Innovations	47
Anthropics.....	6-7		
Arca Swiss	56	PRODUCT PORTFOLIOS	
Avenso	19	Alien Skin Software	73
B&H Photo	51, 81-91	Anthropics.....	73
Bay Photo Lab	4-5	BackdropExpress.com	72
Cambridgeworld.com	34-35	Bay Photo Lab	72
Carl Zeiss Optical.....	27	BosStrap.....	73
CBRE/Urban Photography.....	41	Classic Connection	73
Classic Connection	53	Cotton Carrier LTD	72
Clík Elite	25	Graslon.....	72
Cotton Carrier LTD	71	Meridian Professional Imaging.....	72
Denny MFG	43	OP Tech	72
Dromon Next.....	30	Skytop Trading	73
Expo Imaging	39		
Graslon.....	60	ETC	
KEH Camera Brokers.....	77	Acratech.....	93
Legion Paper	50	Adorama.....	93
Mamiya Corp	CV4	Alpine Camera	92, 93
Manfrotto	29	Authorized Photo Service	93
Marathon Press	58	Automated Photo Technology	92
Meridian Professional Imaging.....	31	Big Prints USA.....	92
Midwest Photographic Resource	49	Classic Connection	94
Minox/Nissin	64	Dan Black	94
MK Controls.....	22	Darkroom Unlimited.....	92
National Camera Exchange.....	61, 65	Holland Photo	92
Olympus	11	Holly Enterprises.....	93
Omegrabrandness	45	KEH Camera Brokers.....	93
Paul C. Buff	CV2-3, 63, CV3-98	Natures Image Photography.....	92
Photogenic	23	Petra Kellers Photo	93
Platypod Pro.....	52	Photography on Bald Mountain	93
PPA/Watauga	40, 42, 44	Specialty Photo Labs.....	92
Promediagear.....	13	Stan Tamarkin	93
Samys Camera.....	21	Sto-Fen.....	93, 94
Savage Universal	17, 37	The Dark Room.....	92



© Theresa Rose Ditson

SEEING GREEN: When Theresa Rose Ditson visited Willow Lake in Prescott, Arizona, she noticed that bright, green algae was in full bloom and that the lake's water level was unusually high. The clouds and azure sky above also seemed to mirror the landscape below. So what did Ditson do? She reached for her trusty Nikon D810 (the camera featured on the cover of *Shutterbug* this month) and Nikkor 14-24mm f/2.8 lens and captured this gorgeous shot. "My favorite types of shooting involve finding beauty that is often overlooked," she says. "I love that the camera can help us 'see' them and share them with others." You can view more of Ditson's work at www.flickr.com/photos/treerosephotography.

Editor's Note: Every month we will feature an image in *Final Shot* from *Shutterbug Photo of the Day* on Shutterbug.com.

For every shoot, there's

ADORAMA

The widest selection of cameras & photo gear in the industry.

ADORAMAtv

Free Creative Education

 youtube.com/AdoramaTV



01. Nikon D750 *Bundle*

- A serious tool for serious shooters
- Built-in Wi-Fi sharing & remote control
- Cutting edge HD video capabilities
- 24.3MP FX-format sensor & EXPEED 4

\$2,296.95 SKU: INKD750A

02. Lumix DMC-GH4

- 16.05 MP Digital Live MOS Sensor
- 4K Cinematic Video
- Digital Single Lens Mirrorless
- Micro Four Thirds mount

\$1,697.99 SKU: IPCDMCGH4

03. Canon EOS 5DS R

- 50.6 Megapixel Full-frame CMOS sensor
- Fine Detail mode in Picture Style
- Scene Detection System
- 1-point High Density Reticular AF

\$3,899.00 SKU: ICA5DSR

04. Pentax 645Z

- Medium Format Digital SLR
- 51.4 effective MP CMOS sensor
- ISO - 100 to 204,800
- Beautiful, full HD movies

\$8,496.95 SKU: IPX645Z

05. Canon 600 EX-RT

- Wireless multiple flash system
- Redesigned contact construction
- Improved flash head durability
- 18 Custom Functions

\$549.00 SKU: CA600EXU

06. Nikon SB-910 TTL AF Speedlight Flash

- Nikon's flagship Speedlight
- Flash Exposure Control
- On the road or in the studio

\$546.95 SKU: NKSB910AFU



Scan here to visit
ADORAMA.COM

42 W 18th ST., NYC
800-223-2500



FREE 1-3 DAY SHIPPING

on most orders over \$49*

*details at adorama.com/shipping



VIEW THESE
ITEMS ON OUR
ADORAMA.COM
FOR **CURRENT
PROMOTIONS
& SAVINGS**

07. Nikon D810 Digital SLR

- 36.3 MP FX-format full-frame sensor
- No optical low-pass filter
- ISO 64 to ISO 12,800
- Stills and Full HD 1080p video

\$2,996.95 SKU: INKD810

08. Canon EF 100-400mm

- L-series super-telephoto zoom
- 1 fluorite & 1 super UD lens element
- Circular aperture (9 blades)
- New Air Sphere Coating

\$2,199.00 SKU: CA1004002U

09. Profoto B2 Off Camera Flash Head

- TTL and HSS (High Speed Sync)
- 2 fully asymmetrical outlets
- Fast recycling of 0.03-1.35 seconds

\$695.00 SKU: PP901108

10. Sony Alpha a7S

- Mirrorless Digital Camera
- 4K Video BIONZ X Processor
- Sony E-mount Full Frame
- ISO - 50 to 4,096,002

\$2,498.00 SKU: ISOA7S

11. Canon EOS-7D Mark II

- 20.2 Megapixel CMOS sensor
- Full HD 1080p/60 Video
- Dual Pixel CMOS AF
- Continuous 10fps Shooting

\$1,799.00 SKU: ICA7DM2

36 Years Makes
Us Experts

**Passion Makes
Us Photographers**

EINSTEIN™

by PAUL C. BUFF

Since 1986, the studio flash industry has been fighting to keep up with Paul Buff. Most mono flashes are the market today are still outgrowths of his original White Lightning™ Ultra design, some adding digital controls and fancy packaging changes, but offering core technology that remains fundamentally the same. Even those heavy European lights with all the buzz - super accurate, fast, consistent color, digital controls and all that - they're still centered around the same technology that Paul introduced back in '86, offering minor advances and major price tags.

But Paul Buff has always stayed ahead of the game - *above and beyond the game* - creating all new, next generation technology that has become the future industry standard. Unlike any mono flash ever seen before, the **EINSTEIN™** unit is the most advanced, integrated studio flash system ever conceived, delivering proven results that outshine even the inflated published specs of competitors. And because it's offered from Paul C. Buff, Inc.™, **EINSTEIN™** is proudly designed and assembled in the USA, arrives with our legendary customer support, and is available at amazingly low factory-direct prices.

REVOLUTIONARY DESIGN: Built around unique IGBT technology, **EINSTEIN™** sets new standards for flashtube control, delivering action-freezing t.1 flash durations down to 1/13500 second with advanced uP algorithms that allow power adjustment from 640 WS down to a mere 2.5 WS, maintaining constant color +/-50K over the entire power range.

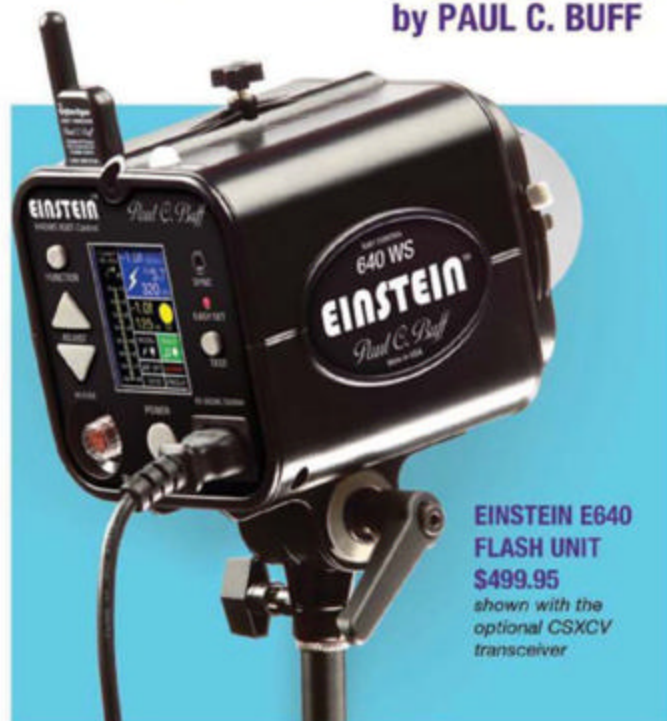
BRILLIANT PERFORMANCE: Recycling to full power in just 1.7 seconds, the recycle time proportionally *decreases* as the power is reduced. And as an added advantage of IGBT flash control, **EINSTEIN™** can be fired at reduced power settings before recycle is complete, making it possible to perform a rapid sequence of shots. In typical fast action sports shooting, setting the power to around 1/10 (64 Ws) will allow frame rates or bursts on the order of 5 to 10 frames per second with excellent frame to frame consistency and extremely sharp action freezing.

VERSATILE FUNCTION: For your different shooting needs, **EINSTEIN™** offers two distinct operation modes. In **Constant Color** mode, the emitted color temperature is held constant at 5600°K (+/- 50°K at any power setting or input voltage) while the flash duration ranges from 1/568 sec. (t.1) at full power to 1/8000 sec. (t.1) at minimum power. In **Action** mode, the flash duration is minimized for maximum action stopping capability where absolute color consistency is secondary to motion freezing. At half power in Action mode, the flash duration is approx. 1/2000 sec. (t.1) and the color temperature is approx. 5750°K (rising as power is reduced).

COMPLETE CONTROL: From its giant color LCD screen, **EINSTEIN™** displays every possible parameter, including flashpower and modeling lamp output, recycle status, flash duration, color temperature, and more. Adjustments are made easily on the control panel, or the unit can be wirelessly controlled with the CyberSync™ system (*sold separately*).

WHAT-YOU-SEE-IS-WHAT-YOU-GET: The flashpower and 250 Watt modeling lamp are independently adjustable in precise 1/10 f-stops and can be set to adjust together for WYSIWYG previews. Both the tube and lamp are positioned under a Pyrex frosted diffusing dome for exact pattern correlation, elimination of hotspots, and reduction of UV emission.

GLOBAL COMPATIBILITY: The plug-and-play **EINSTEIN™** can be used anywhere in the world, operating on global power lines from 95 to 265 VAC. Using a standard power cord for any outlet configuration, the unit automatically senses the voltage/frequency and adjusts accordingly with no user attention required.



**EINSTEIN E640
FLASH UNIT
\$499.95**
*shown with the
optional CSXCV
transceiver*

THE FUTURE IS BRIGHT

EINSTEIN™ Flash Unit \$499.95

- 9 f-stop power variability
- adjustable in precise 1/10 f-stops
- all-digital control LCD display
- global plug-and-play (95-265 VAC)
- action-stopping up to 1/13,000 sec.
- consistent +/- 50°K at any power
- bright 250 Watt modeling lamp
- frosted dome cover
- audible and visual recycle alerts
- "Easy Set" button - quick to default
- 60-Day Absolute Satisfaction Guarantee
- 2-Year Factory Warranty

Einstein™ is compatible with our full line of accessories including the CyberSync™ system and our Vagabond™ systems.



toll free 1-800-443-5542

www.PAULCUFF.com

PAUL C. BUFF, INC. • 2725 Bransford Ave. Nashville, TN 37204 • Designed and Assembled in the USA • Factory Direct Only

VLX™ EXTREME Battery Power For EXTREME Professionals

VAGABOND™ LITHIUM EXTREME

Extremely Powerful • Up to 3200 Ws; up to five monolights from a single VLX™; runs power packs, LEDs, fans, laptops, wind machines, etc. at 120VAC / 60HZ.

Extremely Fast • Recycles typical four-light studio system to 1280 Ws in a blazing 3.3 seconds. See chart of recycle times from our video below.

Extreme Battery • Superior LiFePO4 158.75Wh quick-change battery lasts >10 years, >1200 charge / discharge cycles and yields 1000 pops per charge at 320 Ws.

Extremely Versatile • 400 continuous-watt proprietary Pure Sine Inverter; 2A USB; sturdy stand clamp fits up to 1-1/2" poles; powers almost all brands of AC flash units.

**Now available in Purple Haze / Navajo Turquoise or Cool Grey.

Certified for international air travel

If you are interested in a comprehensive performance comparison between VLX™, VML™, and Photogenic ION, the video at the address below is a MUST-SEE.

<https://www.youtube.com/user/paulcuff>



Summary of Recycle Tests from Video:

Flash Unit Models	Output Setting	Total WS	VLX™ Recycle	VML™ Recycle	ION Recycle
1 Einstein™ E640	Full Power	640 Ws	1.96 sec.	4.3 sec.	4.83 sec.
2 Einstein™ E640s	Full Power	1280 Ws	3.5 sec.	8.86 sec.	10.13 sec.
3 Einstein™ E640s	Full Power	1920 Ws	5.3 sec.	13.0 sec.	15.8 sec.
4 Einstein™ E640s	Full Power	2560 Ws	7.2 sec.	15.9 sec.	19.2 sec.
4 Einstein™ E640s	Half Power	1280 Ws	3.3 sec.		
1 AlienBees™ B1600	Full Power	640 Ws	2.0 sec.	4.13 sec.	4.4 sec.
2 AlienBees™ B1600s 2 AlienBees™ B800s	Full Power	1920 Ws	5.27 sec.	14.1 sec.	14.4 sec.

Flash Unit Models	Output Setting	Total WS	POWERED BY VLX™		
			FPS	Time	# of Shots
1 Einstein™ E640	-4.4f	30 Ws	7fps	2.4 sec.	17 shots
4 Einstein™ E640s	-6f	40 Ws	7fps	2.33 sec.	17 shots



Complete VLX™ in Cool Grey
6 lbs. total / 120VAC only



Optional Carry Bag

ABOUT THE BATTERY: Most other systems use the cheaper, NMC-style Lithium Battery. Its limitations are typical storage life of 2-3 years and about 250 charge / recharge cycles before depletion.

The LiFePO4 battery used in VLX™ is the most robust and safest battery made. While initial cost is higher, it offers about five times the storage life and number of charge cycles. For **Power Users**, it offers the lowest operating cost of any battery.

VAGABOND™ LITHIUM EXTREME **\$399.95***
Includes battery, 3 hour global charger and metal stand clamp. Available in Cool Grey or Purple Haze / Navajo Turquoise - both shown above.

Replacement VLX™ Quick-Change Battery **\$159.95***
158.75Wh 25.6V 6200mAh LiFePO4 battery - in Purple or Cool Grey.

Replacement Global Charger **\$34.95***

Optional Sturdy VLX™ Carrying Bag **\$24.95***
Holds one complete VLX™ system including the charger, cords, etc.

* Sold Factory Direct Only • 60-Day Satisfaction Guarantee

Paul C. Buff, Inc. 1-800-443-5542
www.paulcuff.com • Nashville, TN USA • Factory Direct Only

iving Light

with the remarkable new **ELB 400**



© John Flury

Under 5 lb. 350 full-power flashes. Skyport Controller.
Weather-rugged. EL Creative Lighting Suite.
Oh yeah...it is *THAT* awesome.

We are incredibly serious about providing the most lightweight,
powerful and portable lighting systems in the world.

What you do with these beauties is entirely up to you.



elinchromus.com

914 347 3300 • Distributed by MAC Group